

Catalogue of
**American
Fence
and
American
Steel Gates**

GUARANTEED

Zinc Insulated

TRADE MARK

INSULATED AGAINST RUST.

NO EXTRA PRICE

American Steel & Wire Company
CHICAGO NEW YORK BOSTON
DENVER DALLAS

Zinc Insulated

Trade Mark

AMERICAN FENCE

Insulated Against Rust

The test of time in service on your farm is the only true test by which good fence can be measured. Knowing the extra long lasting qualities of American Fence, the American Steel & Wire Company give this

Guarantee of Service

—That the fence will give you the equal of or longer service than any other fence made of equal size wires and used under the same conditions. Any buyer who shows that it fails to do so will upon presentation of the written guarantee, be supplied with an equal amount of new fence free.

American Fence has always been the highest quality fence that the most progressive methods of manufacture could produce. Improvements constantly are added as discovered, to make it last longer and give better service.

The American Steel & Wire Company, maker of American Fence, control every process from selection of ore to the finished product. They know what American Fence is and stand back of it with this unqualified guarantee, based on their past record of more than 25 years for producing **QUALITY PRODUCTS**.

No Extra Charge

You pay just what you would for ordinary fence but you easily get twice the value for your money.

You will find a **RED SIGN** reading **ZINC INSULATED FENCE** in every roll of genuine Zinc Insulated Fence. It is put there for your protection; it means that every roll of fence is made and guaranteed by a reliable manufacturer whose reputation for **quality** has stood the test for more than a quarter of a century.

Zinc Insulated Fence is made only by the American Steel & Wire Company.

Simplified Practice

Our fences are made in accordance with the standards established in conference with the Department of Commerce at Washington. They are made so because they give the farmer the best value for his money. The gauges of wire (except in poultry fence) are—

Nos. 9, 11, 12½, 14

These sizes were adopted because they are the most economical gauges to draw, enabling us to give a greater quantity of steel per rod for the price.

This standardization or simplification applies only to heights, spacings and wire gauges. It does not apply to the quality of steel or galvanizing.

Our "ZINC INSULATED" FENCE is in a class by itself. This quality cannot be found in other fences. "ZINC INSULATED" FENCE is made only by the American Steel & Wire Company.



These signs are placed in every roll of American Fence for your protection.

Simplified Practice Tag—This sign shows that the Fence is of a size in accordance with Simplified Practice Recommendation No. 9 of the United States Department of Commerce, Washington, D. C.

Zinc Insulated Sign—Look for the Red sign reading ZINC INSULATED FENCE. It is placed in every roll of genuine Zinc Insulated Fence and shows that the fence is made and guaranteed by a reliable manufacturer to stand the test of time under all kinds of weather conditions.

Specification Sign—This sign shows the actual size of wires used. It is placed there for your protection. If the sign is not in the roll it is not American Fence. We know of no other manufacturer who puts a sign in the roll to show the size of wires used.

The Strong Points of

GUARANTEED

Zinc Insulated
TRADE MARK

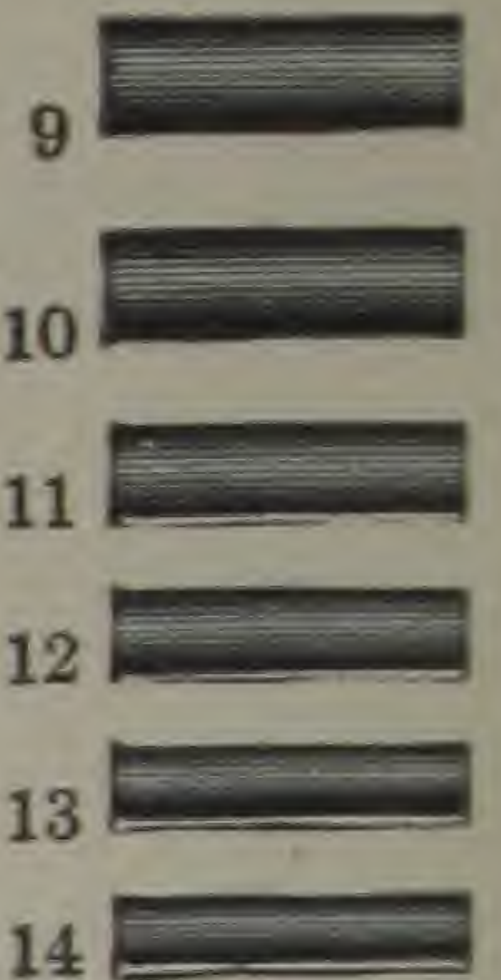
American Fence

Proper Construction

The American hinge joint method of attaching line and stay wires is time-tested and proven satisfactory by over 25 years of actual service in the field.

Gauge of Wires

Numbers are used to designate the gauges of wires. Don't be confused, as the larger the number the smaller the wire. For instance, No. 9 gauge wire is larger than No. 9½ gauge. Every wire in American Fence is guaranteed to be the gauge or size called for by the specification sign placed inside the roll. Look for this placard; it is placed there for your protection.



Distance Between Stay Wires

Every rod of 6-inch stay American Fence has 33 stays and every rod of 12-inch stay has 16½ stays. American Fence is never made less durable or serviceable by placing stay wires a greater distance apart.

Weight Per Rod

American Fence catalogues show estimated weight for full gauge, full length, full weight fence of all sizes and styles. American Fence is guaranteed to average up to these weights.

Save money by buying quality and weight in woven wire fence. We make light weight fences, the best that can be produced, because some of the trade demands them, but we recommend the heavy fences as they are the most economical to use. The heavy substantial fence is by far the cheapest in the long run.

Zinc Insulated

Every wire in American fence is "ZINC INSULATED" (galvanized) with a heavy uniform coating of zinc. This new galvanizing **insulates** the wire with zinc, or spelter. It will stand the real test of time under all kinds of weather conditions.

Reputation

For over 25 years American Fence has borne an enviable reputation for lasting quality, and the "ZINC INSULATED" FENCE made today will add to that reputation as it is the best fence value ever offered to the farmer.

Guarantee of Service

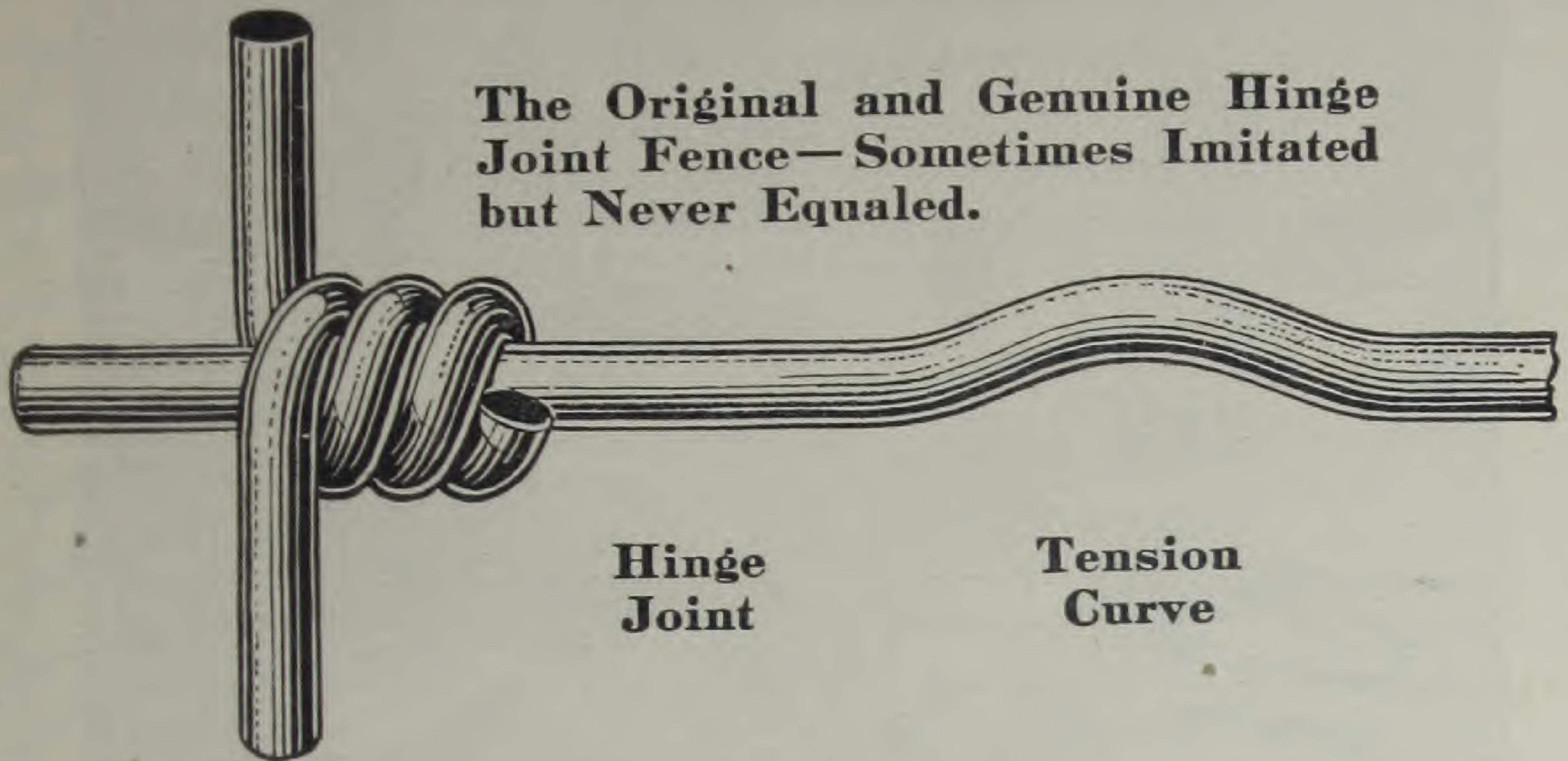
We guarantee our fence to give the equal of or longer service than any other fence made of equal size wires and used under the same conditions.

Construction of

GUARANTEED

Zinc Insulated
TRADE MARK

American Fence



The Original and Genuine Hinge Joint Fence—Sometimes Imitated but Never Equaled.

Hinge Joint

Tension Curve

Hinge Joint

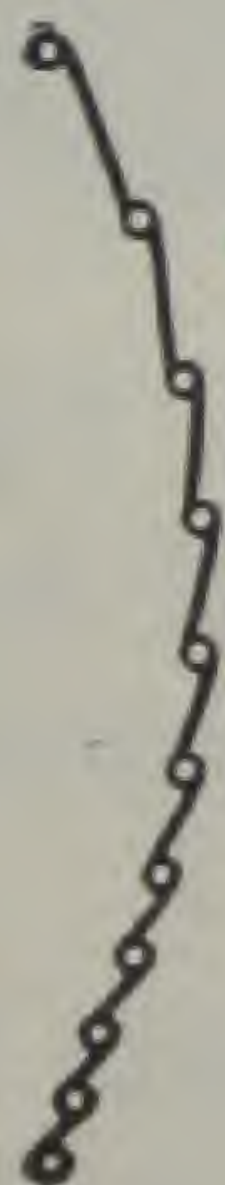
The famous American Hinge Joint prevents the fence from crushing under pressure. A separate piece of stay wire is used between each line wire, the ends being fastened together in the hinge joint.

Tension Curves

These are built into the line wires—a curve every six inches—making it possible to stretch the fence as it should be stretched and still provide for contraction and expansion due to temperature changes. These curves will not pull out, as the wire is made of the right kind of material.



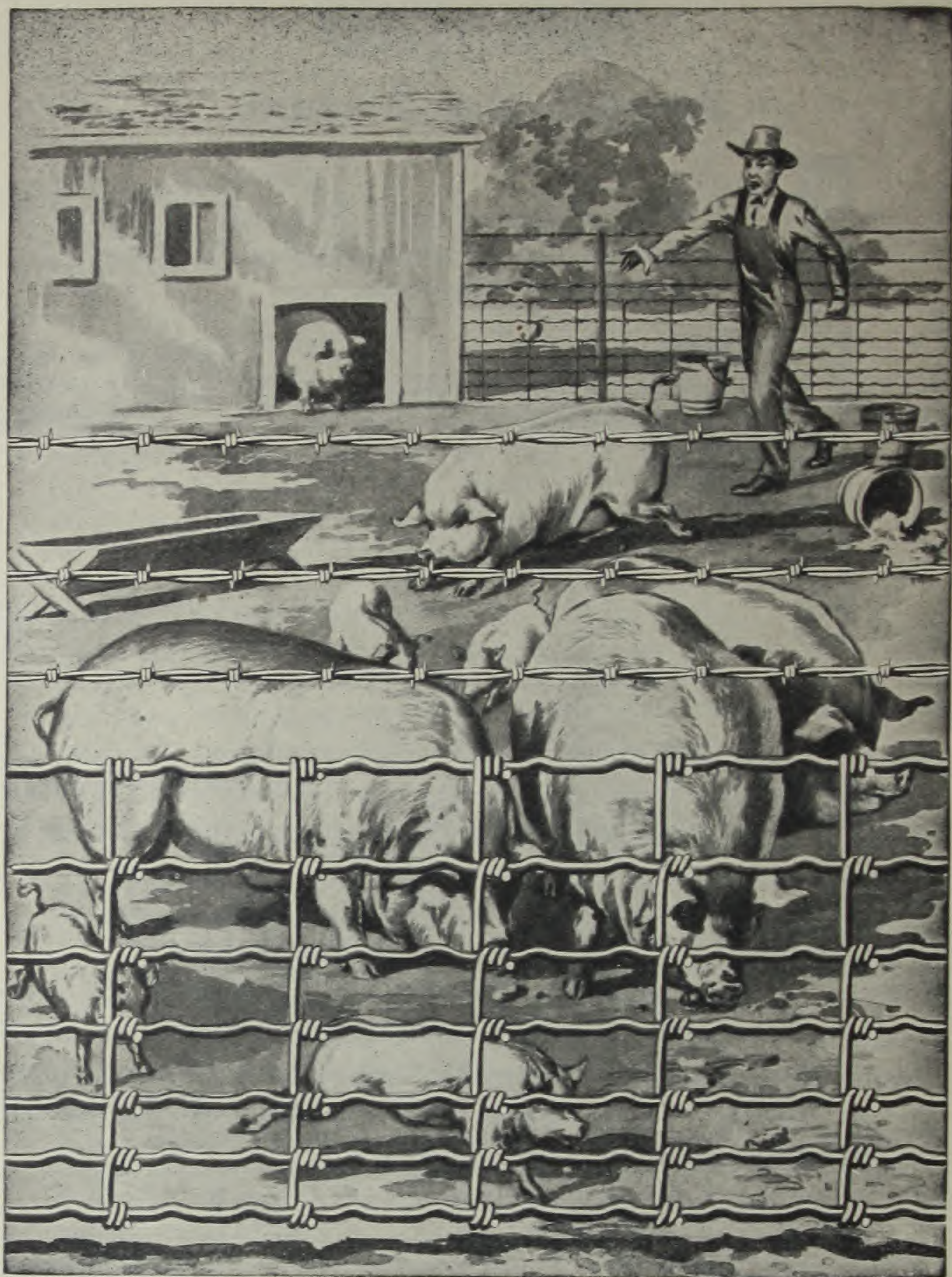
End view of Fence in normal position.



End view showing action of stay wires bending at hinge joint under pressure.



End view after pressure has been removed, stay wires and line wires have returned to original position.



The above illustration shows Design 726 American Fence used in connection with three strands of Barbed Wire. This construction is largely used in sections where hog raising is an important industry.

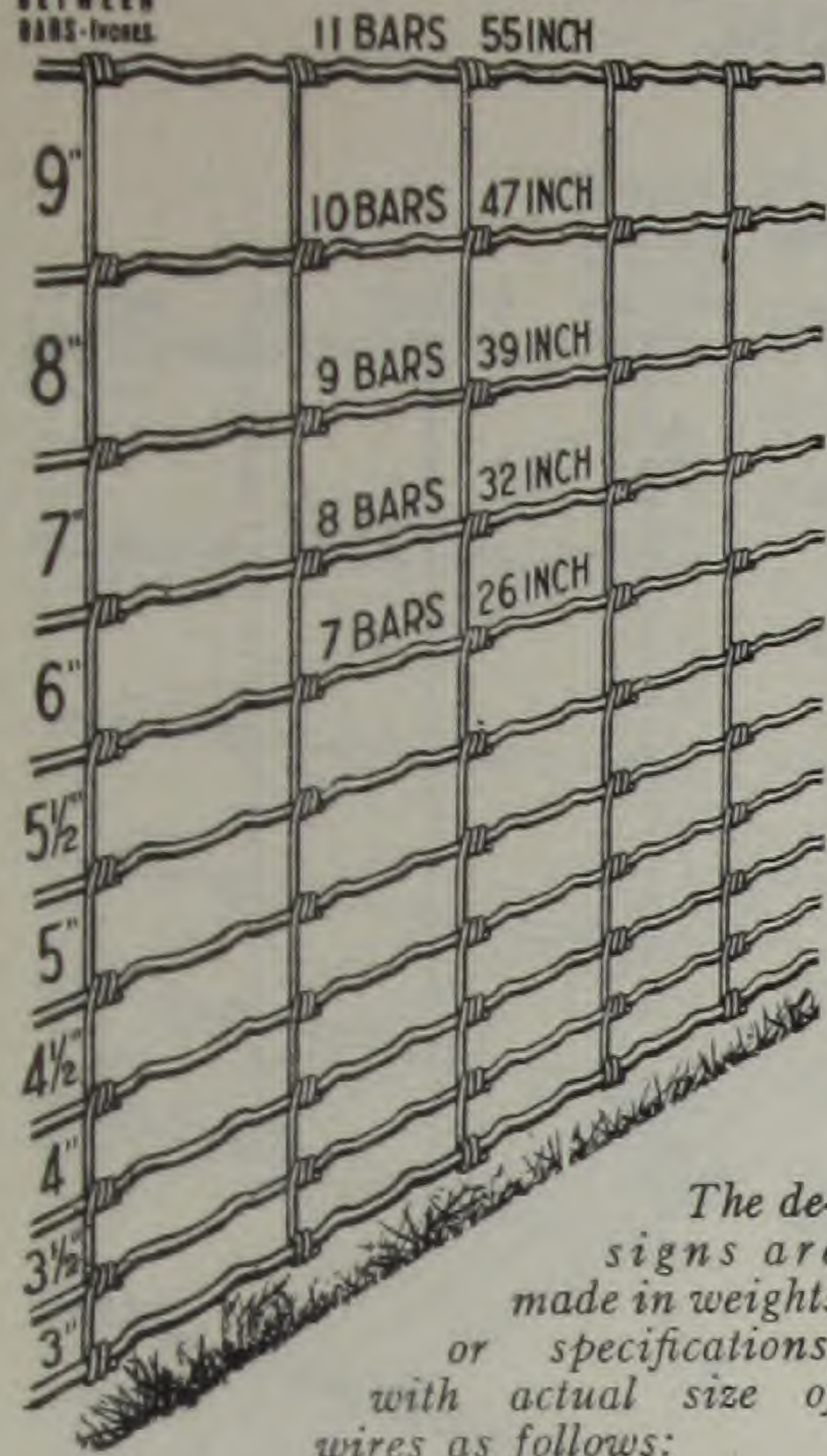
Design 726 is the lowest height made in Standard Mesh styles. Other heights are 32, 39, 47 and 55 inches. Illustration and full description of all Standard Mesh Fences are shown on opposite page.

GUARANTEED
Zinc Insulated
TRADE MARK

American Fence

Designs 1155, 1047, 939, 832 and 726

DISTANCE
BETWEEN
BARS - INCHES



The designs are made in weights or specifications, with actual size of wires as follows:

For Horses, Cattle, Sheep, Hogs and all Farm Animals

This fence made in 5 heights is ample for general farm use. The close spacing at bottom turning hogs and the construction is such as to hold sheep, cattle and horses. Furnished in specifications No. 9, No. 11, No. 12½ wire and No. 14 in designs 832 and 726. We recommend heavy fences because they give longer life, better satisfaction and cost less in the long run.

Stay Wires 6 or 12 Inches Apart in Specifications No. 9, 11 and 12½

Stay Wires 6 Inches Apart in Specifications No. 14

Furnished in 40 and 20-Rod Rolls

ACTUAL SIZES OF WIRE

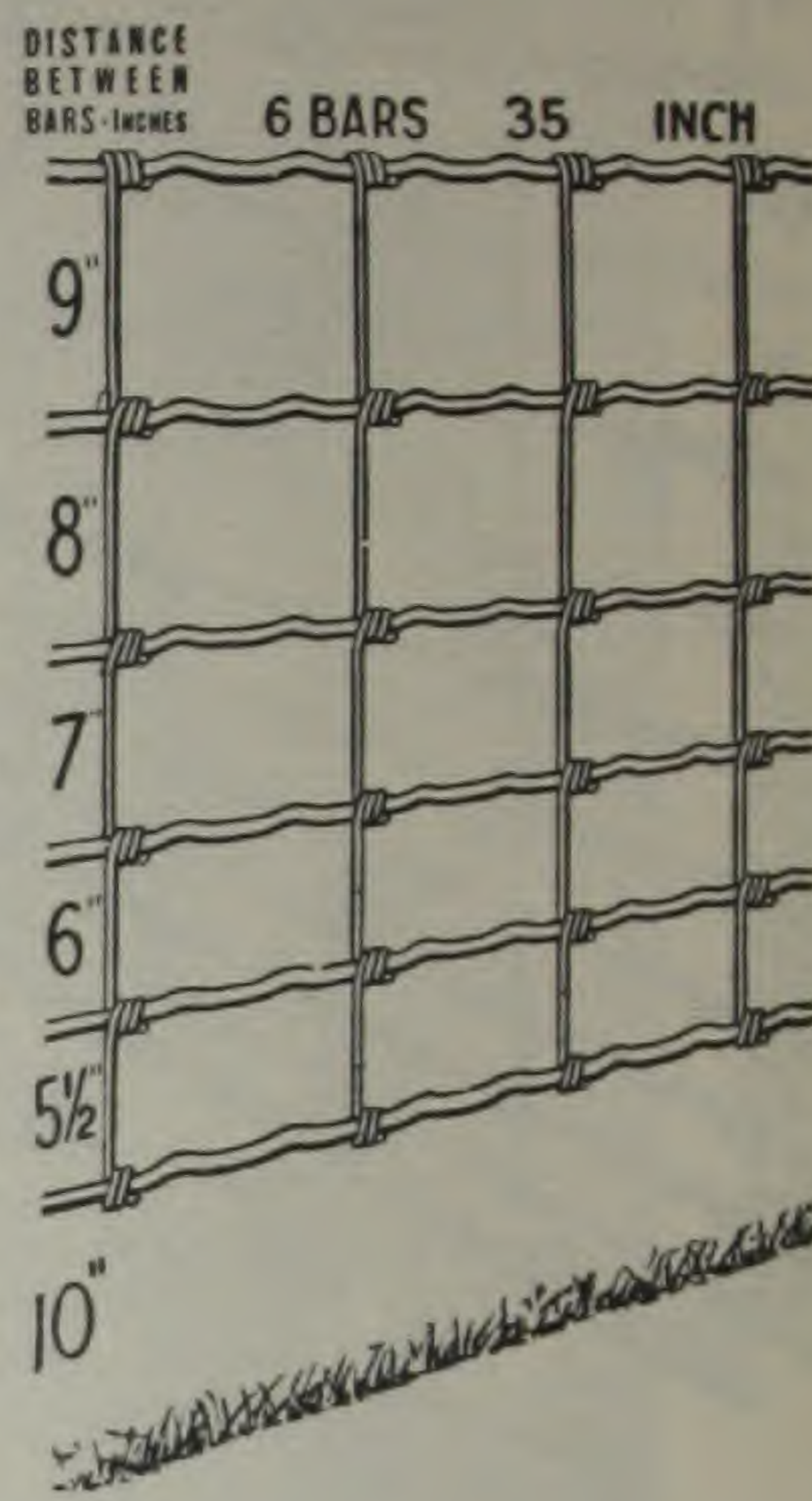
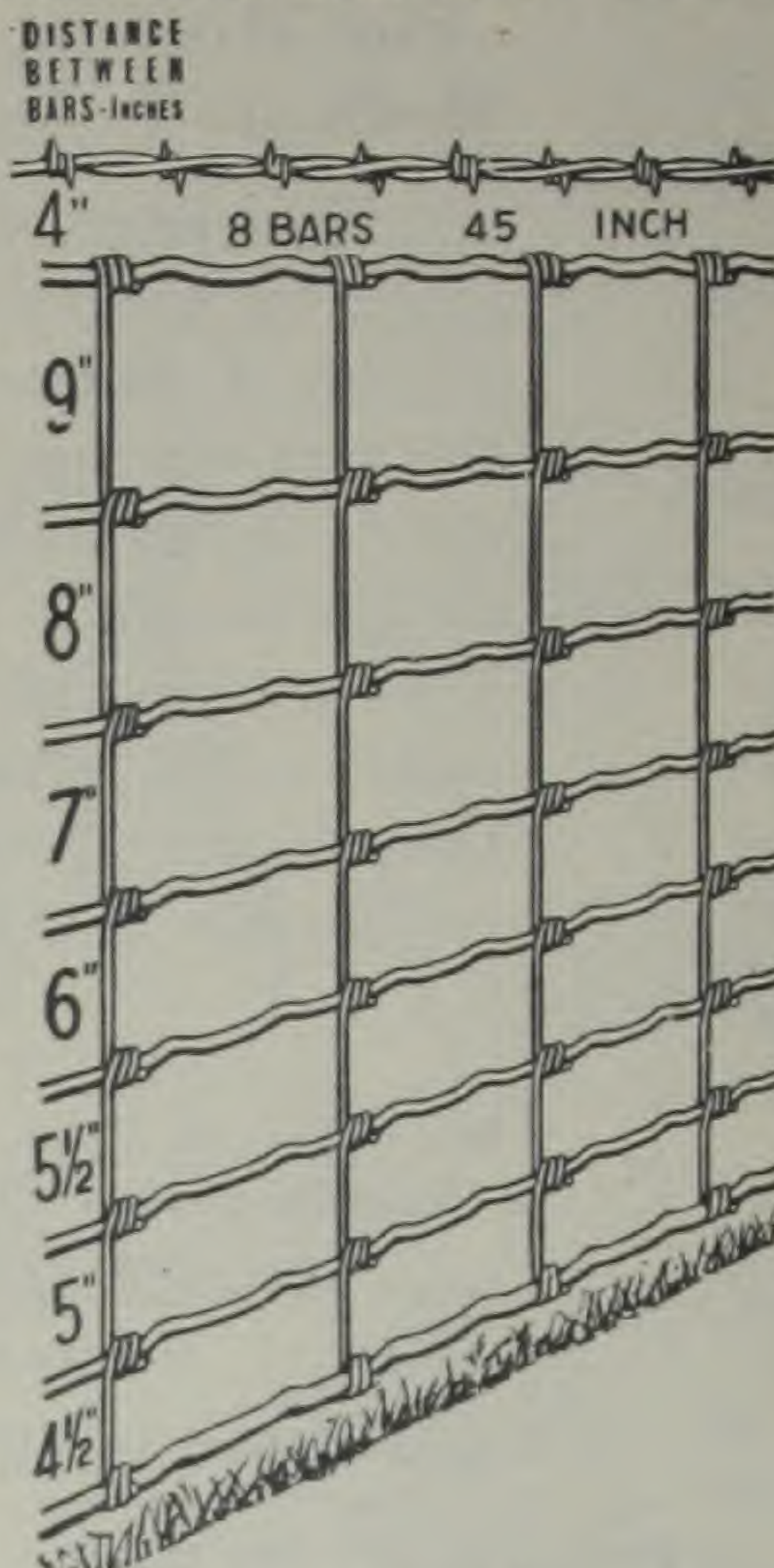
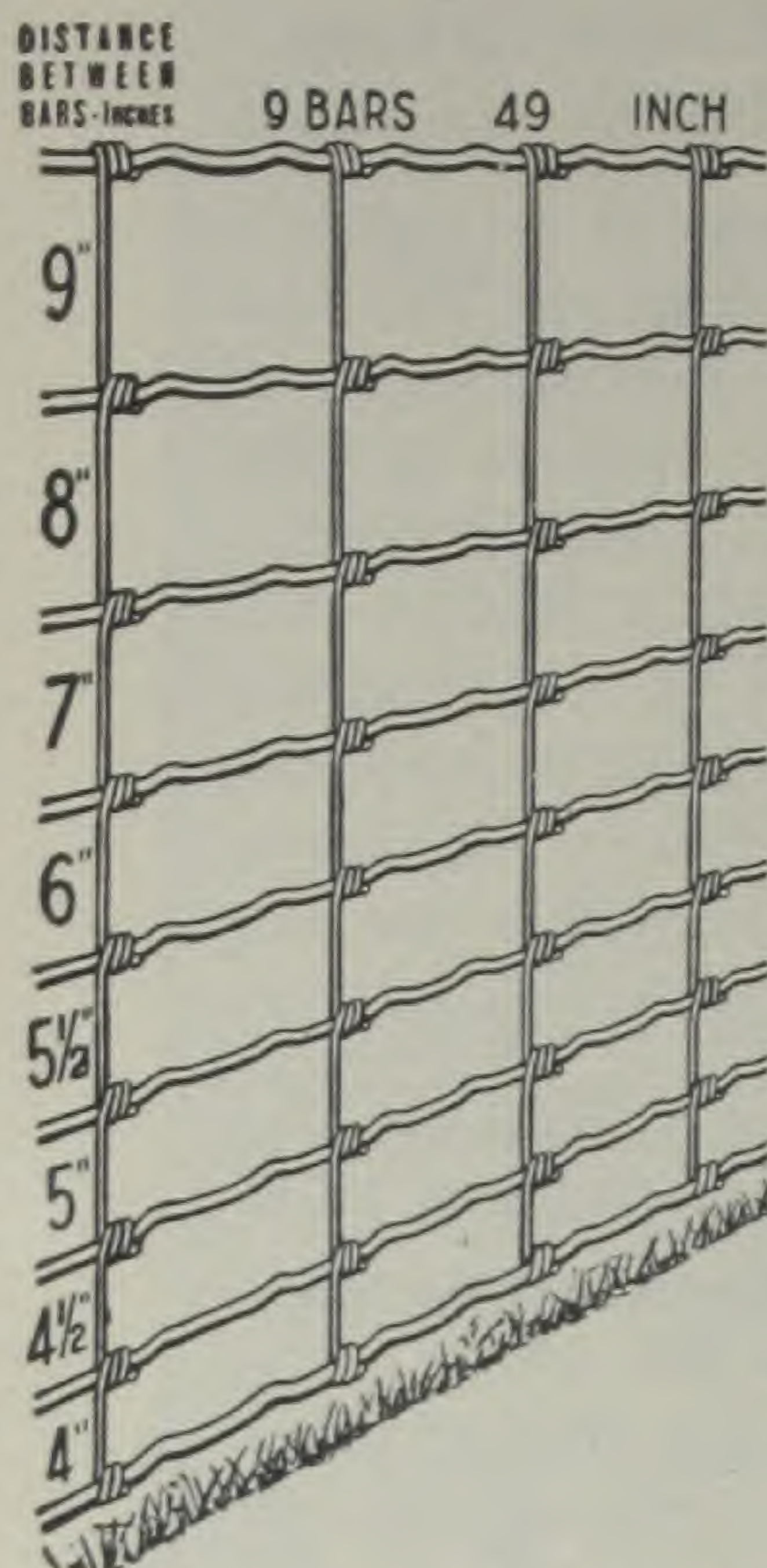
	Spec. No. 9	Spec. No. 11	Spec. No. 12½	Spec. No. 14
Top Bar.....	9	9	10	11
Bottom Bar..	9	9	10	11
Intermediate Bars.....	9	11	12½	14
Stays.....	9	11	12½	14

(Directions for ordering American Fence shown on page 30)

Specifications	Design No.	No. of Horizontal Bars	Approximate Height in Inches	APPROXIMATE WEIGHT PER ROD IN POUNDS	
				12-inch Stays	6-inch Stays
No. 9	1155	11	55	18.0	25.3
	1047	10	47	16.0	22.3
	939	9	39	14.1	19.6
	832	8	32	12.3	17.0
	726	7	26	10.6	14.5
No. 11	1155	11	55	12.2	16.7
	1047	10	47	10.9	14.8
	939	9	39	9.7	13.1
	832	8	32	8.6	11.4
	726	7	26	7.5	9.8
No. 12½	1155	11	55	8.4	11.3
	1047	10	47	7.5	10.0
	939	9	39	6.7	8.9
	832	8	32	6.0	7.8
	726	7	26	5.3	6.8
No. 14	832	8	32	....	5.3
	726	7	26	....	4.6

Ask Your Dealer for Prices

GUARANTEED
Zinc Insulated
TRADE MARK
American Fence
 Designs 949, 845 and 635
 For Horses and Cattle



These are ideal fences for horses or cattle.

Design 635 is usually placed 10 inches above the ground and one or more strands of barbed wire stretched above it. These designs are used for large animals only.

Stay Wires 12 Inches Apart
Furnished in 40 and 20-Rod Rolls

Above designs are made in three weights or specifications, with actual size of wires as follows:

	Specifications No. 9	Specifications No. 11	Specifications No. 12½
Top Wire.....	No. 9	9	10
Bottom Wire.....	No. 9	9	10
Intermediate Wires.....	No. 9	11	12½
Stay Wires.....	No. 9	11	12½

(Instructions for ordering American Fence shown on page 30)

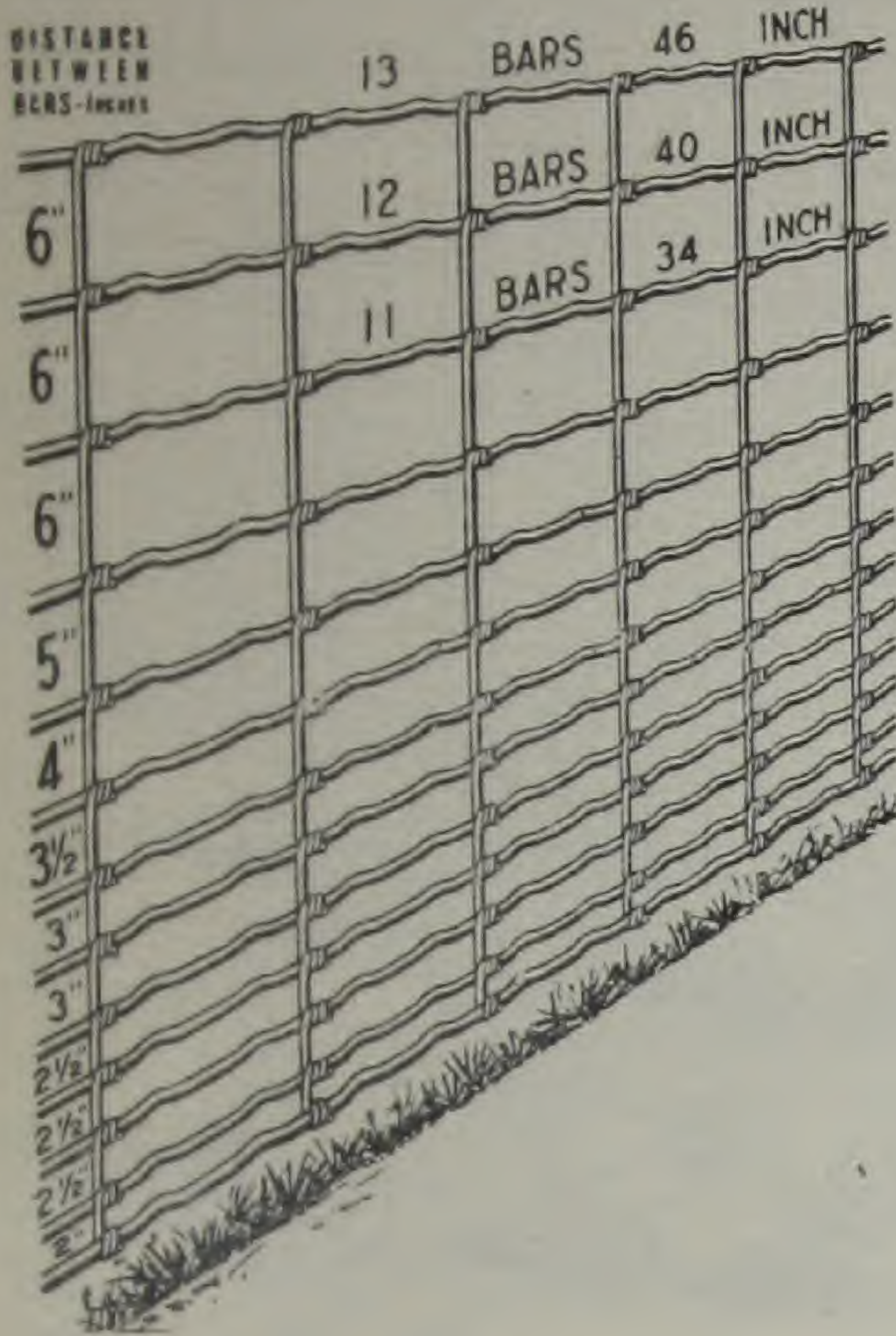
Specifications	Design No.	No. of Horizontal Bars	Approximate Height in Inches	12-INCH STAYS
				Approximate Weight per Rod in Pounds
No. 9	949	9	49	15.0
	845	8	45	13.4
	635	6	35	10.2
No. 11	949	9	49	10.3
	845	8	45	9.3
	635	6	35	7.2
No. 12½	949	9	49	7.1
	845	8	45	6.4
	635	6	35	5.1

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TRADE MARK

American Fence

Designs 1346, 1240 and 1134

Close Mesh Hog and Cattle Fence





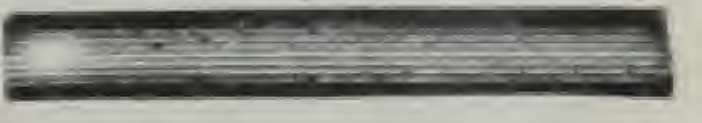

Specification No. 12½ CM

Extensively used in the Southern States for 20 years. Ideal for turning razor-back hogs.

**Stay Wires 6 or 12 Inches Apart
Furnished in 40 and 20-Rod Rolls**

Above designs are made in one weight with actual size of wire as follows:

Bottom Bar..... No. 10 
Top Bar..... No. 10 

Intermediate Bars No. 12½ 
Stays..... No. 12½ 

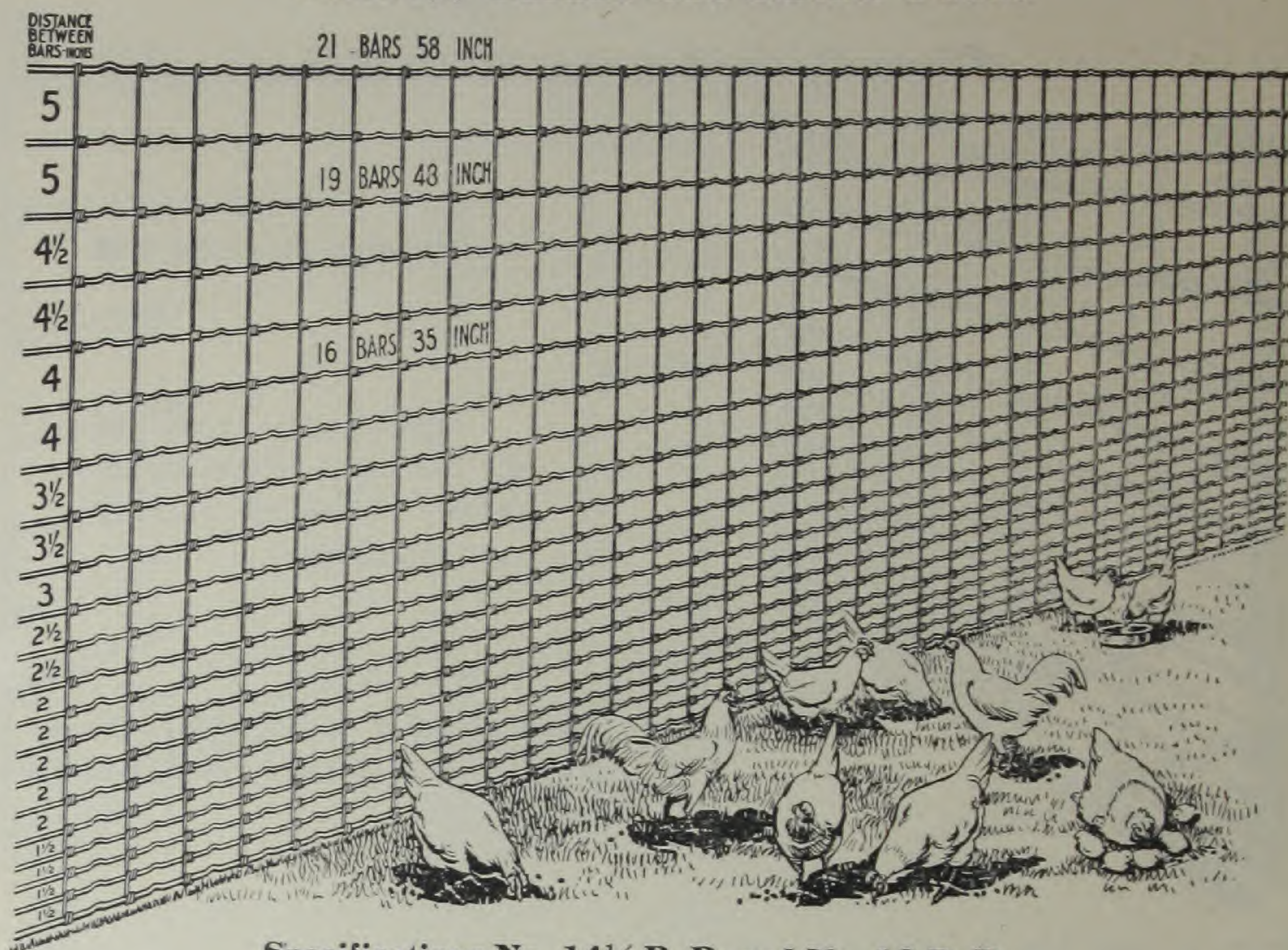
Specifications No. 12½ CM

(Directions for ordering American Fence shown on page 30)

Design No.	No. of Horizontal Bars	Approximate Height in Inches	APPROXIMATE WEIGHT PER ROD IN POUNDS	
			12-inch Stays	6-inch Stays
1346	13	46	9.1	11.8
1240	12	40	8.4	10.7
1134	11	34	7.6	9.7

Ask Your Dealer for Prices

GUARANTEED
Zinc Insulated
 American Fence
 Designs 2158, 1948 and 1635
 Poultry, Garden and Rabbit Fence







Specifications No. 14½ P. R. and No. 13 P. R.

Top or bottom boards not required with this Poultry Fence on account of the close spacing between bottom line wires. An ideal chicken and rabbit-proof fence. Can be stretched like a field fence.





Stay Wires 6 Inches Apart. Furnished in 10 and 20-Rod Rolls

Made in two weights—No. 14½ for general use and No. 13 where an unusually strong heavy poultry fence is required. Actual size of wire as follows:

Specifications No. 14½ P. R.

Top Wire.....	No. 11	
Bottom Wire.....	No. 11	
Intermediate Wires, No. 14½		
Stay Wires.....	No. 14½	

Specifications No. 13 P. R.

Top Wire.....	No. 11	
Bottom Wire.....	No. 11	
Intermediate Wires... No. 13		
Stay Wires.....	No. 13	

Specifications No. 14½ P. R.

Design No.	No. of Horizontal Bars	Approximate Height in Inches	Approximate Weight per Rod in Pounds
			6-inch Stays
2158	21	58	10.3
1948	19	48	9.2
1635	16	35	7.6

Specifications No. 13 P. R.

Design No.	No. of Horizontal Bars	Approximate Height in Inches	Approximate Weight per Rod in Pounds
			6-inch Stays
2158	21	58	14.6
1948	19	48	13.0
1635	16	35	10.8

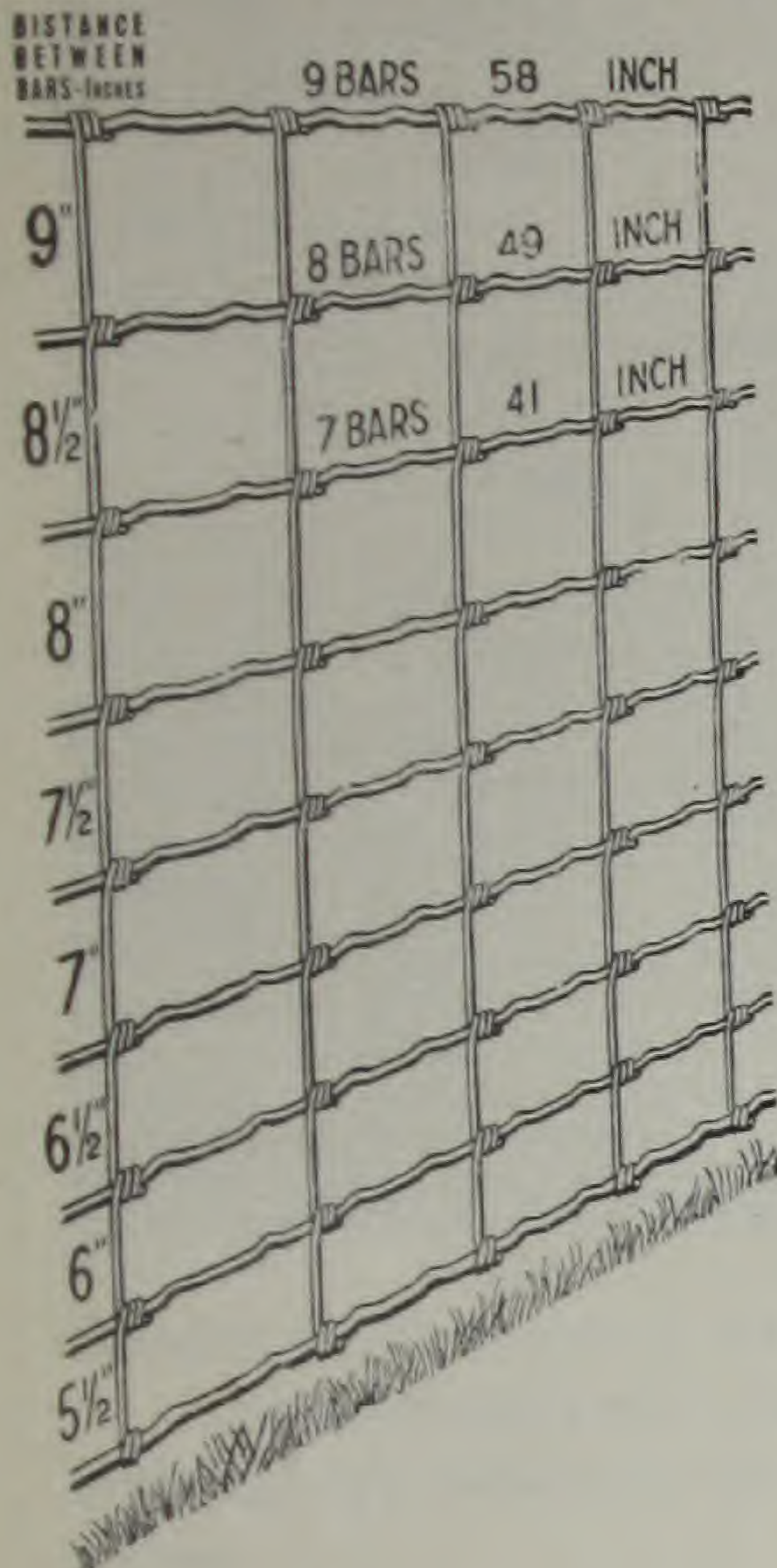
Ask Your Dealer for Prices

(Directions for ordering American Fence shown on page 30)

GUARANTEED
Zinc Insulated
TRADE MARK
American Fence

Designs 958, 849 and 741

Extra Heavy Fence for Large Animals




Specifications No. 7


Also made in Designs 853, 747 and 640
as listed below


The wide spacing between line wires also stays 12 and 24 inches apart, permits the use of No. 7 gauge wire at relatively low cost. This style of fence is particularly adapted to horse and cattle yards, corrals, paddocks, branding pens, or pastures, where a fence of extraordinary strength is required.


Heaviest Wire Fence Made
Stay Wires 12 or 24 Inches Apart
Furnished only in 20-Rod Rolls

Above designs are made in one weight, with actual size of wire as follows:

Top Bar.....No. 7 

Bottom Bar.....No. 7 

Intermediate Bar.....No. 7 

Stay Wires.....No. 7 

Specifications No. 7

(This fence is made at Pittsburgh, Pa., only.)

(Directions for ordering American Fence shown on page 30)

Design No.	No. of Horizontal Bars	Approximate Height in Inches	APPROXIMATE WEIGHT PER ROD IN POUNDS	
			24-inch Stays	12-inch Stays
958	9	58	17.8	23.2
853	8	53	15.9	20.7
849	8	49	15.7	20.3
747	7	47	13.9	18.2
741	7	41	13.6	17.5
640	6	40	12.0	15.6

Ask Your Dealer for Prices

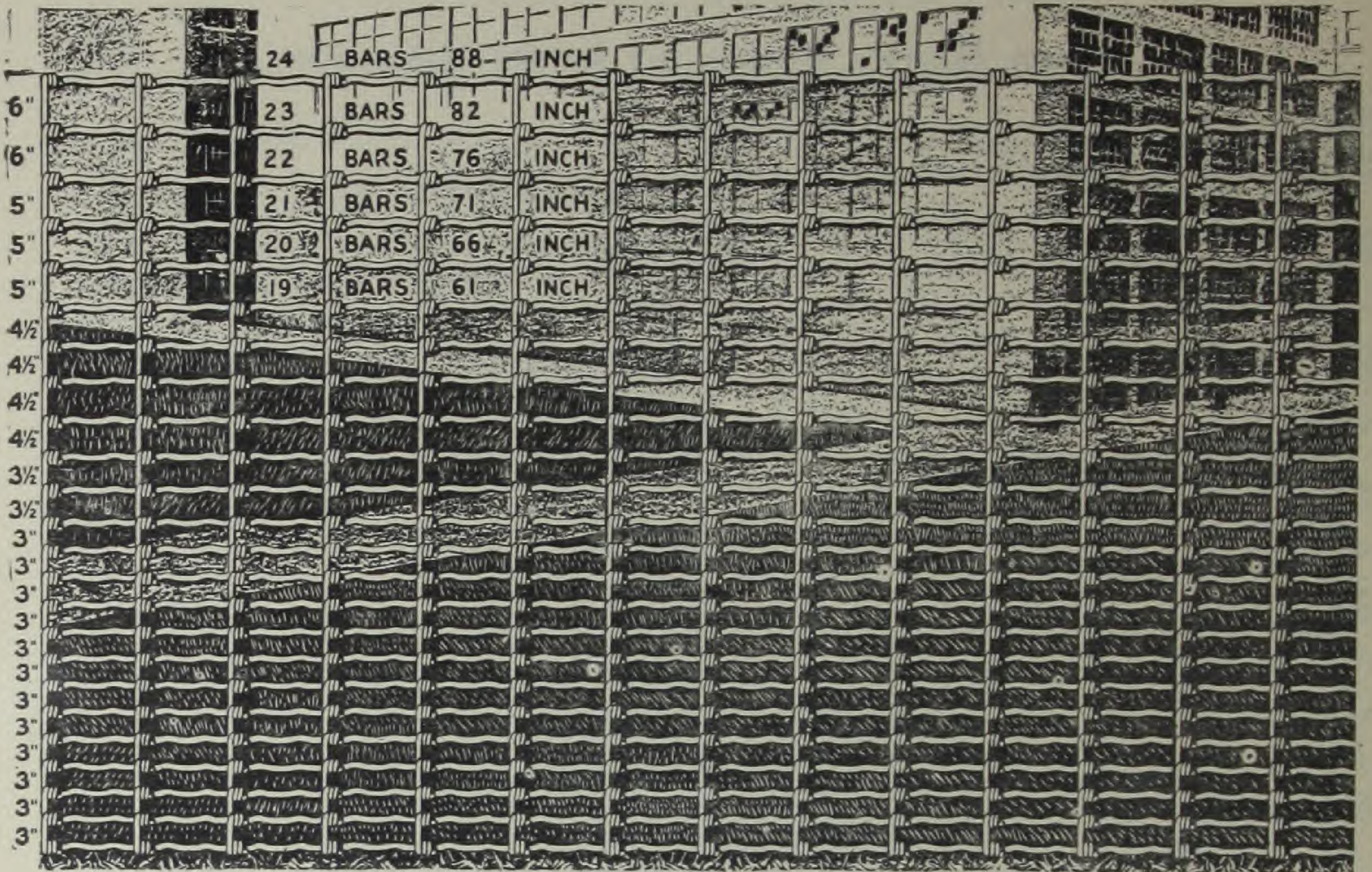
GUARANTEED

Zinc Insulated

Trade Mark

Park and Paddock Fence

Specifications No. 9 Park



Especially designed for enclosing Private Parks, Fair Grounds, Race Tracks, Zoölogical Gardens, Stockades, Branding Pens, and Manufacturing Plants.

The large and heavily galvanized wires, all of which are the same size, produce a fence that is unequalled for the above purposes.

Made in six heights ranging from 61 to 88 inches as described below.

Gates to match above fence shown on page 26.

Made in Six Heights Listed Below

***Furnished in 10 and 20-Rod Rolls**

Stay Wires 6 or 12 Inches Apart

Above designs are made in one weight, with actual size of wires as follows:

Top Bar.....No. 9



Intermediate Bars No. 9



Bottom Bar.....No. 9



Stays.....No. 9



**While the use of 20-rod rolls reduces the number of splices, the rolls are extremely heavy, as will be seen from weights shown below.*

(Made at Pittsburgh, Pa., only)

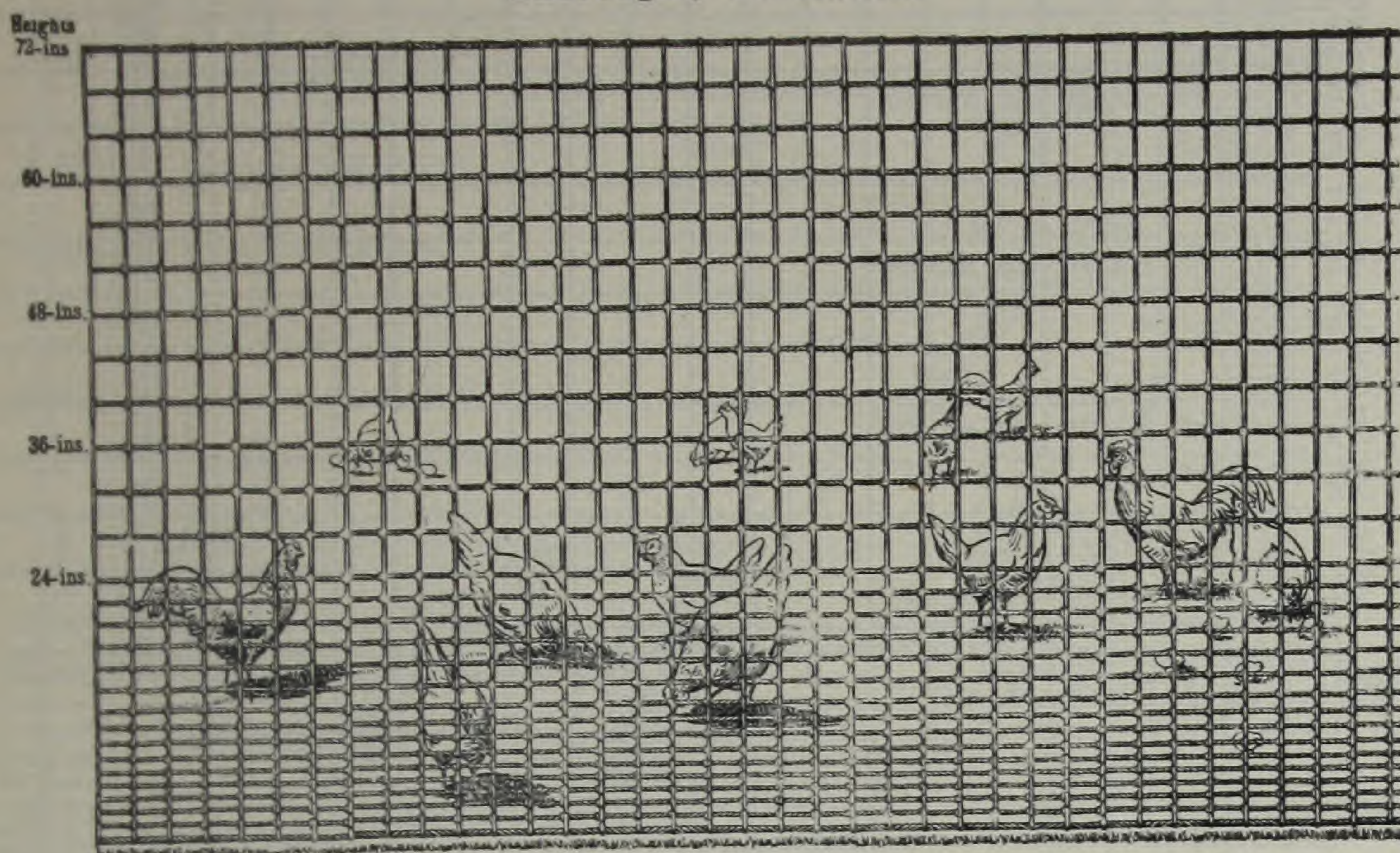
Specifications No. 9 Park

(Directions for ordering above fence, shown on page 30)

Design No.	Number of Horizontal Bars	Approximate Height in Inches	APPROXIMATE WEIGHT PER ROD IN POUNDS	
			Stay Wires 12 Inches Apart	Stay Wires 6 Inches Apart
2488	24	88	36.3	49.3
2382	23	82	34.6	46.8
2276	22	76	32.8	44.4
2171	21	71	31.2	42.1
2066	20	66	29.6	39.8
1961	19	61	28.0	37.5

Union Lock Poultry Fence

A Closely Spaced, Medium Weight, Square Mesh Poultry Fence
Thoroughly Galvanized



Union Lock Poultry Fence has been on the market for years. The steadily increasing demand proves its superiority as an efficient, medium priced poultry fence. It is not to be confused with what is commonly known as a poultry *netting*. The latter is usually made from lighter wire, while Union Lock is a woven wire fence, made of heavier and well galvanized wire, which insures longer life. The first requirement of a good poultry fence is close spacing.

Union Lock Poultry Fence with its first six spaces only $1\frac{1}{8}$ inches apart, and gradually increasing to $3\frac{7}{8}$ inch spacing at the top, is a barrier to the smallest chicks.

All the horizontal bars consist of a two-strand No. 20 gauge cable.

Upright or stay wires are No. 19 gauge also closely spaced, 3 inches apart, and woven into each cable to prevent slipping.

Being of square mesh construction, it goes up easily on uneven ground.

Can be stretched tightly, same as a stock fence.

Made in Five Heights Listed Below

Furnished in 10 and 20-Rod Rolls

Union Lock Poultry Fence offers exceptional value for a medium weight fence of its kind.

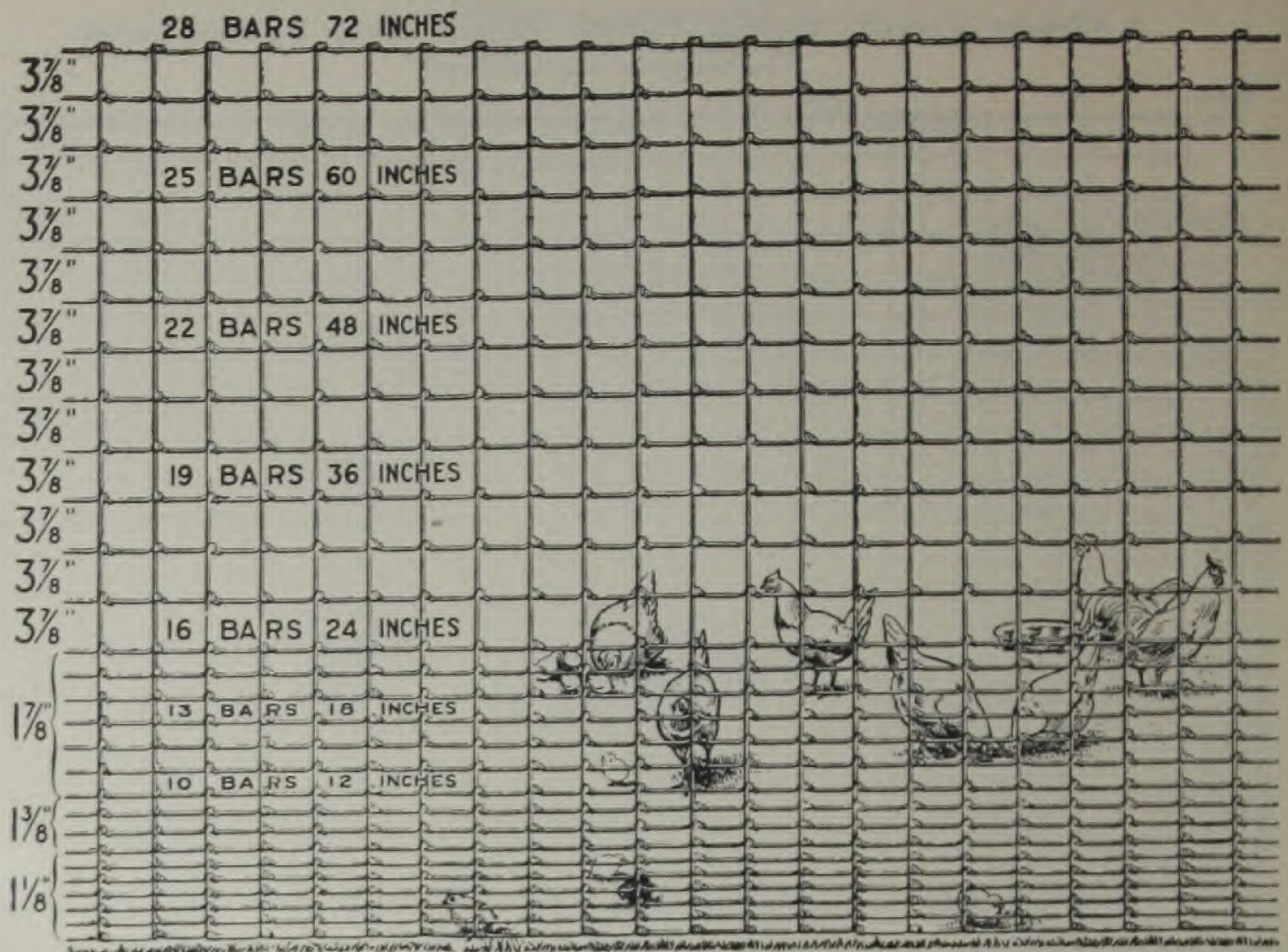
Heights and Weights

(Directions for ordering above fence, shown on page 30)

HORIZONTAL CABLES—Two-Strand No. 20 Gauge		STAY WIRES—No. 19 Gauge and 3 inches apart	
Design No.	Number of Horizontal Bars	Approximate Height in Inches	Approximate Weight per 10-Rod Roll in Pounds
2872	28	72	55
2560	25	60	48
2248	22	48	42
1936	19	36	35
1624	16	24	28

Ask Your Dealer for Prices

Banner Standard Poultry Fence



BANNER STANDARD POULTRY FENCE is the result of the combined experience of men who have grown up in the steel fence industry. The close mesh keeps in the smallest fowls. It is made with the strong, smooth, and tight Banner knot and the wires will not slip.

Primarily this is a poultry fence, but it is of sufficiently heavy construction to serve as an effective barrier against ordinary domestic animals and can be used between poultry yard and pasture. It requires no top and bottom rail. It stretches up like a field fence and fewer posts are required.

SPECIFICATIONS

Top and bottom horizontal wires or bars, No. 15.

Intermediate horizontal wires or bars, No. 17.

Upright wires or stays, No. 17.

Upright wires or stays, spaced 4 inches apart.

Spacing of horizontals or bars graduated, first six at bottom of fence 1 1/8 inches, next three 1 3/8 inches, next six 1 7/8 inches, remaining bars 3 7/8 inches.

Furnished in 10 and 20-Rod Rolls

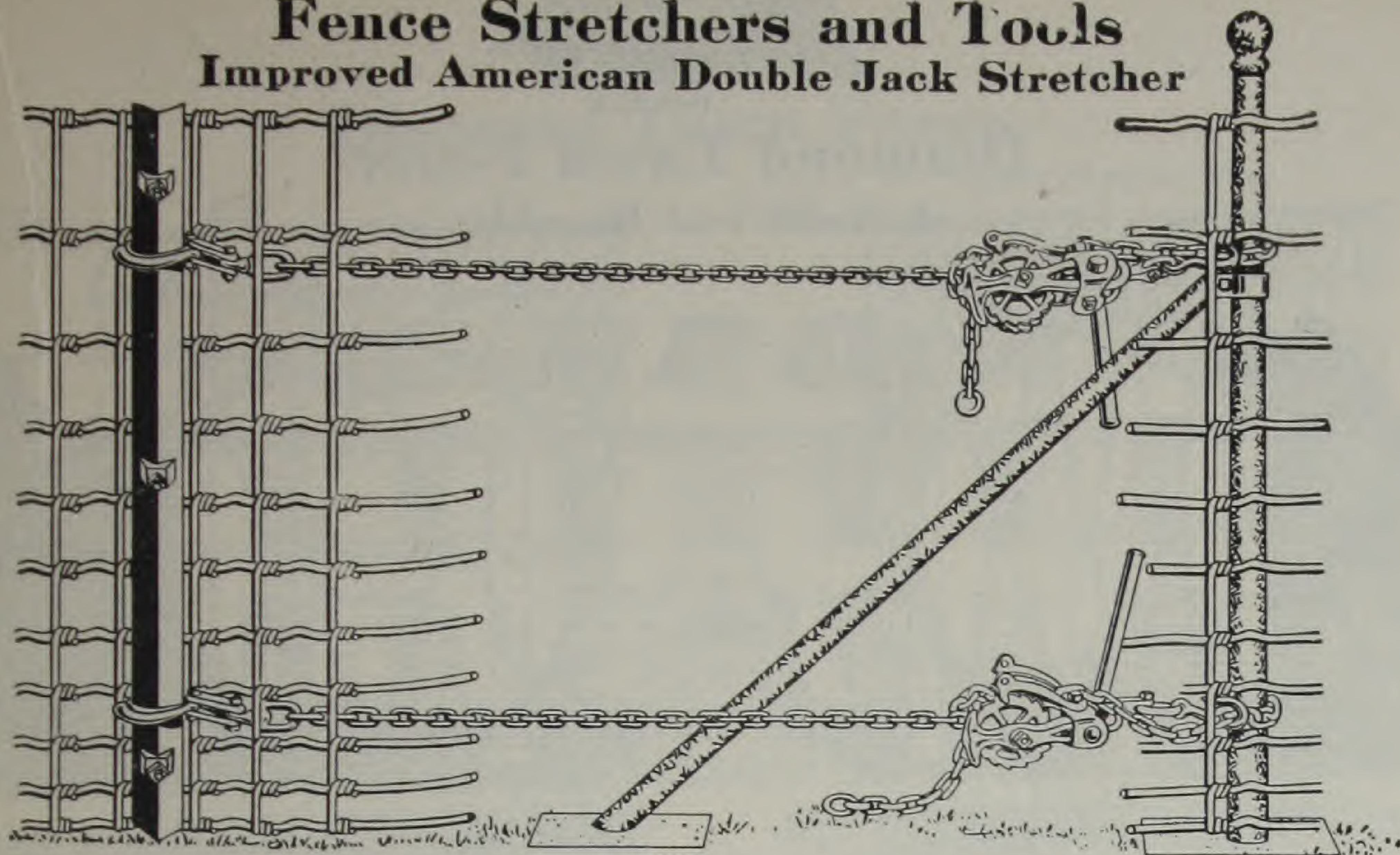
Sizes and Weights

Design Number	Approximate Height in Inches	Number of Bars	Approximate Weight in Pounds per 10-Rod Roll
1012	12	10	22
1318	18	13	28.5
1624	24	16	35.5
1936	36	19	43.7
2248	48	22	52.6
2560	60	25	61.4
2872	72	28	68.3
3184	84	31	78.6

Ask Your Dealer for Prices
(Directions for ordering on page 30)

Fence Stretchers and Tools

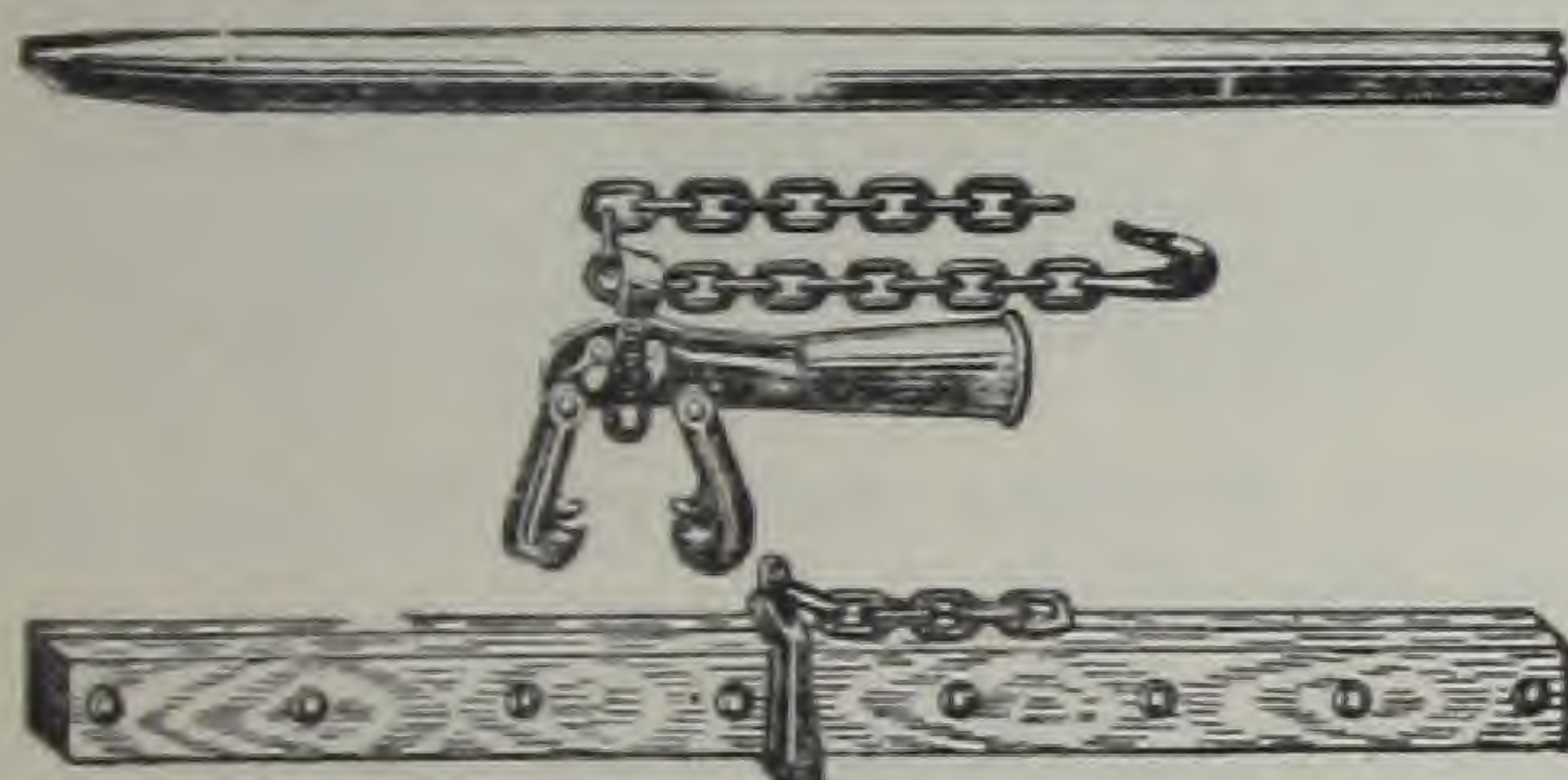
Improved American Double Jack Stretcher



The American Double Jack Stretcher combines all the important features of a fence stretcher—Simplicity, Strength, and Safety. It is made entirely of steel, therefore, strong and durable. Its angle bars, or clamp bars, are rounded in such a way as to prevent injury to the wire during the stretching. Only three bolts on clamp bars—which can be easily and quickly tightened. It can be operated by one person. This stretcher consists of one pair of clamp bars, two jacks or stretching heads, two sets of chains and two levers, which makes it possible to stretch the fence at top or bottom, as desired. Shipping weight, approximately 105 lbs.

Lott Stretcher

Shipping weight, approximately 85 lbs.



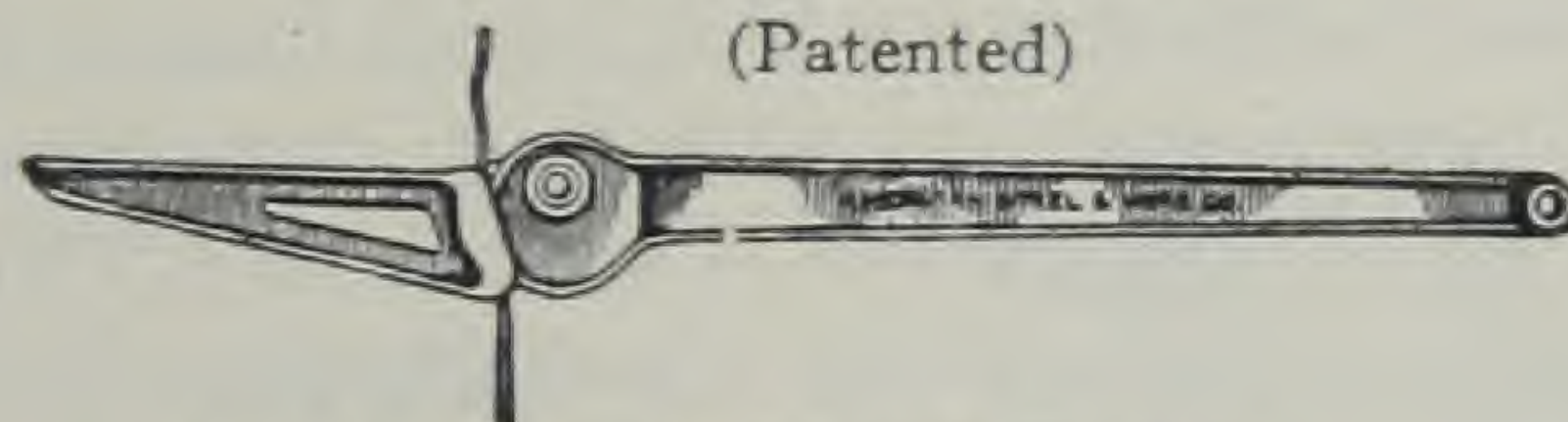
Clamp bars furnished with Lott Stretchers are made of wood, reinforced with half-oval iron to keep wire from slipping. Stretching chain, 8 feet long. Stretcher furnished complete, except Lever. Use for this purpose an old piece of pipe or lever cut from wood.

American Single Jack Stretcher

The American *Single Jack* Stretcher is identical, in construction, to the *Double Jack*, except that it has only *one* jack or stretching head, *one* set of chains and *one* lever. The *Single Jack* Stretcher is most generally used for lower or lighter fences. Shipping weight, approximately 82½ pounds.

A. S. & W. Single Wire Stretcher

(Patented)



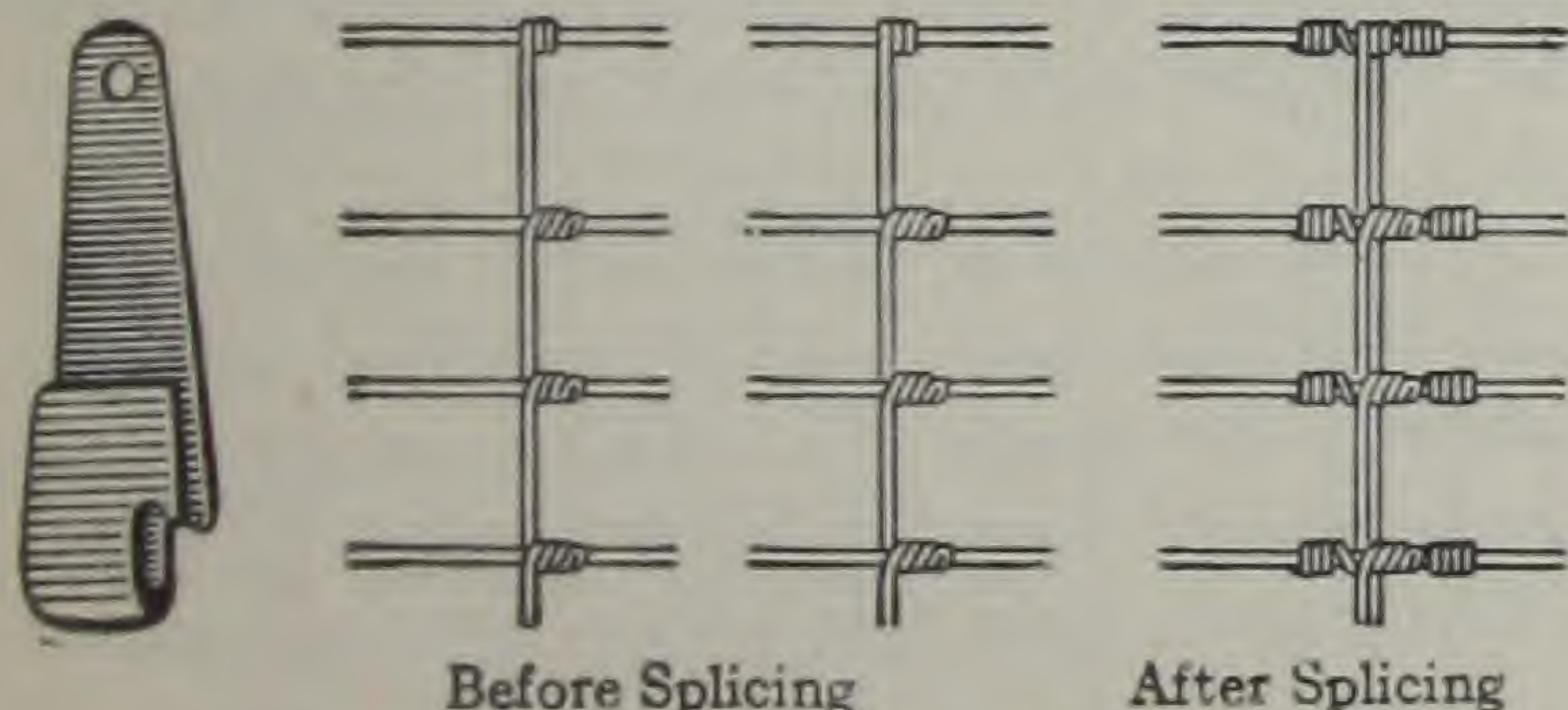
For Use with Wood Posts

Shipping weight, approximately 8 lbs.

Used for tightening single wires (smooth or barbed), taking up slack, and making fence uniformly rigid. Works in any position. All metal; strong and durable.

American Splicer

Shipping weight approximately 3 lbs. per dozen.

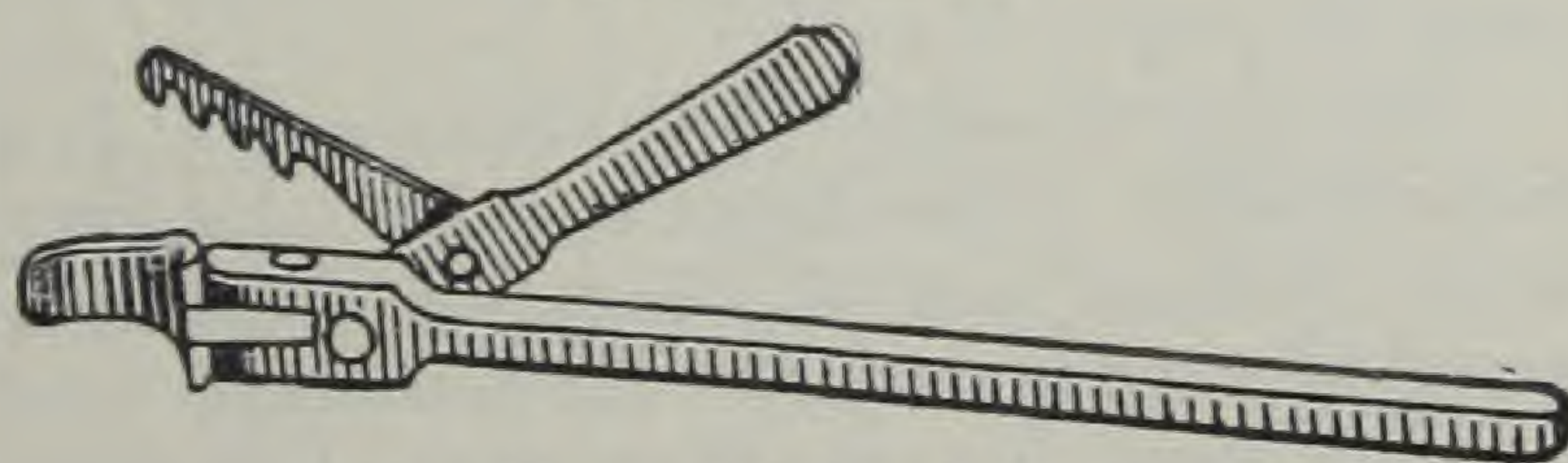


Before Splicing

After Splicing

Necessary and convenient for splicing wires in woven wire fence or elsewhere. Inexpensive and does the work well.

Perfection American End Tool



For Use with Steel Posts

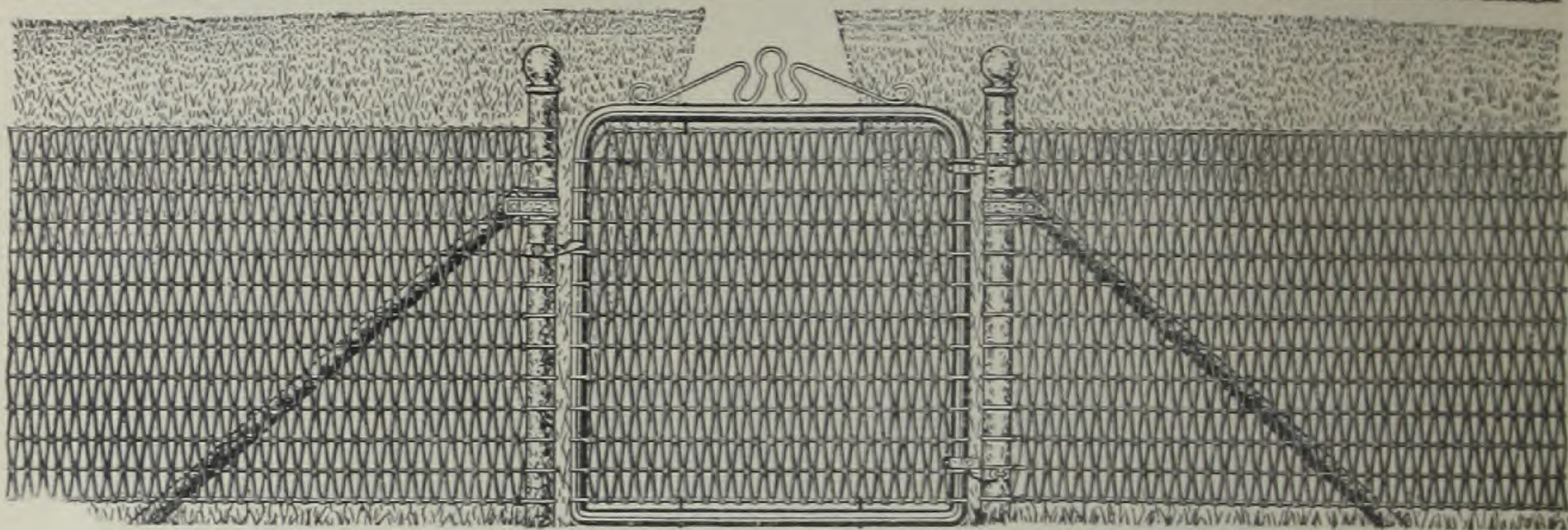
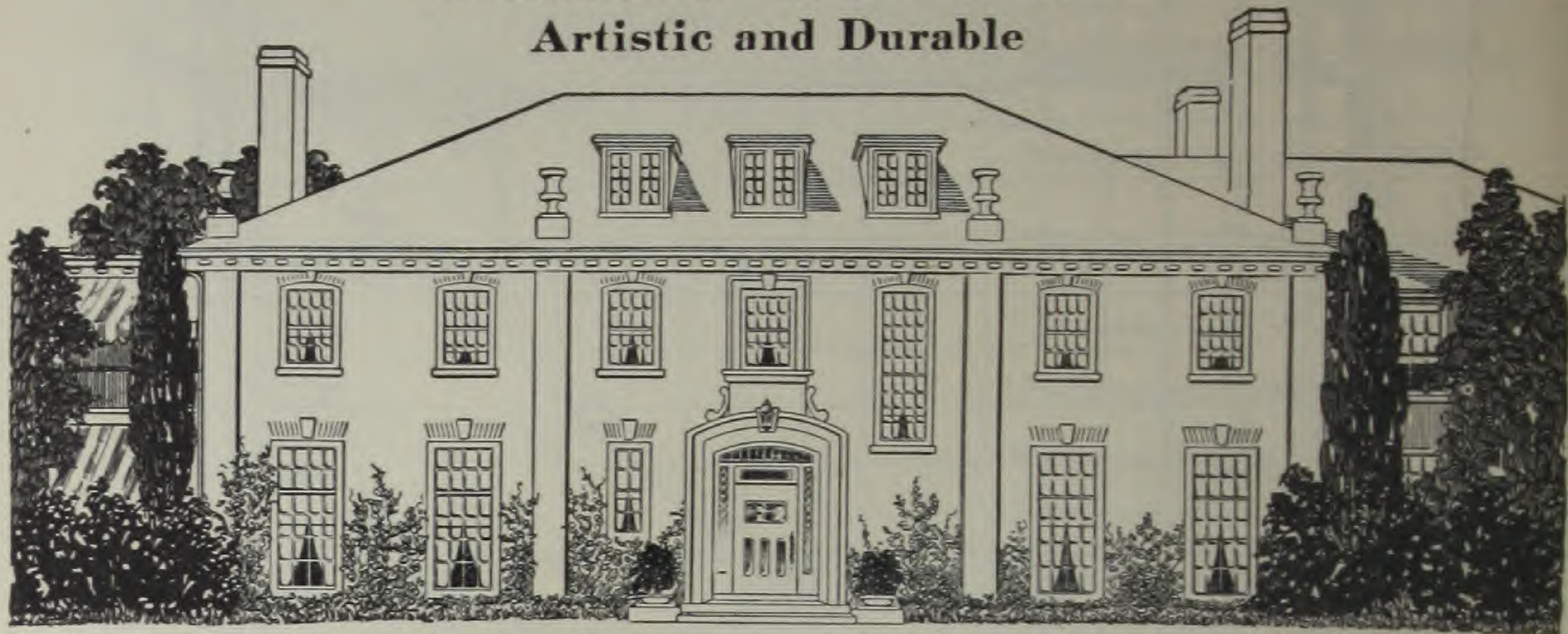
A handy tool for fastening lateral wires of fence to steel end or corner posts. Insures uniform tightness, thus increasing life of fence. Easily operated. Shipping weight, about 3 lbs.

See pages 32 to 39—How to Build a Fence

NON-CLIMBABLE
Zinc Insulated
Trade Mark

Diamond Lawn Fence

Artistic and Durable



Designed for Residences, Fair Grounds, Factories, Parks, Athletic Fields, Race Tracks, Cemeteries, etc.

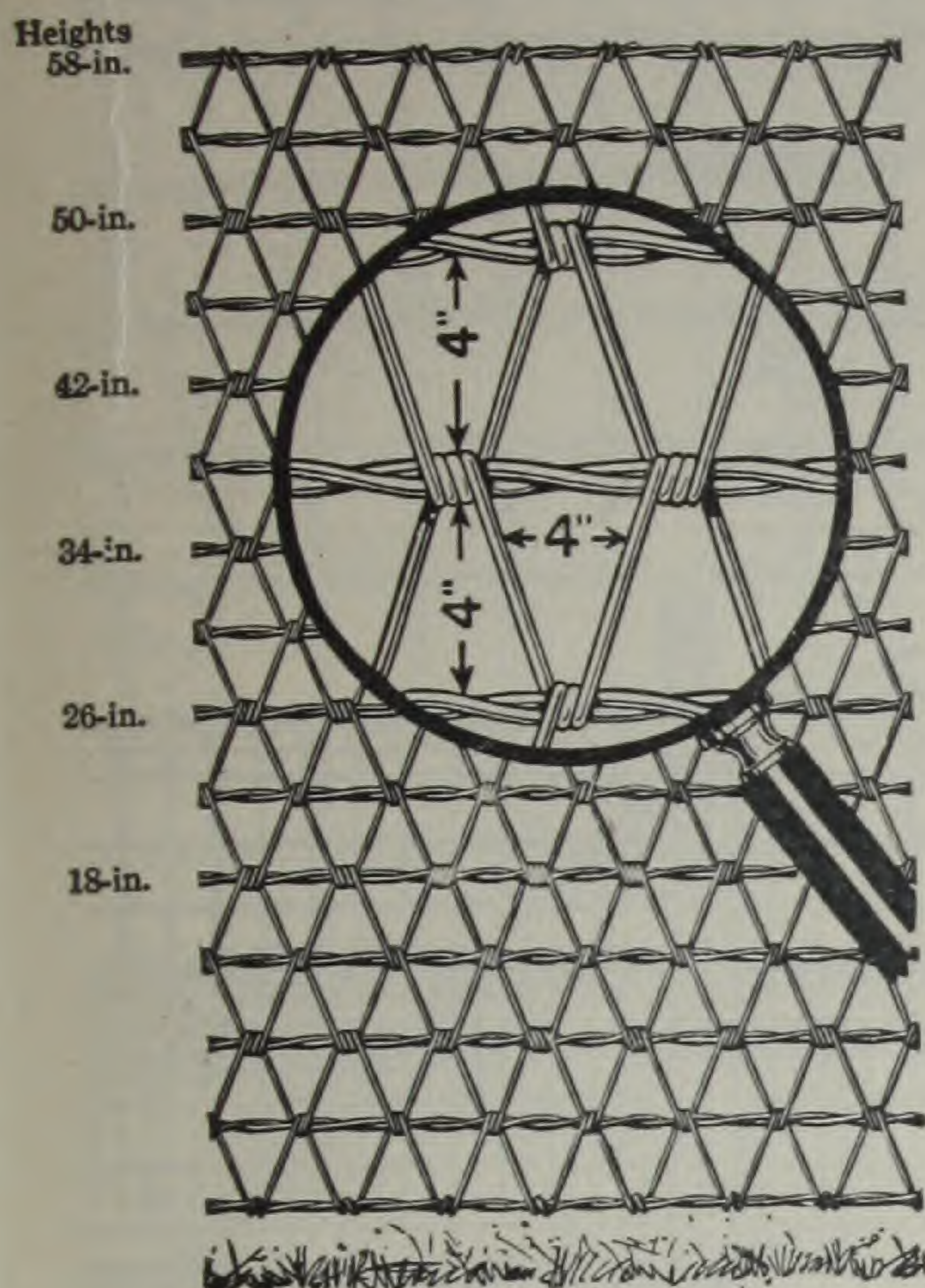
Zinc Insulated Diamond Lawn Fence is always in great demand, owing to the many purposes for which it can be utilized. The triangular truss is the strongest form of construction known. Its diagonal, or cross wires, are so interwoven with the horizontal cables that slipping is impossible. This gives the fence exceptional strength and rigidity. At every second cable the cross wires are wrapped around the cable, thus forming a perfect hinge joint. Under heavy or severe pressure the fence will act just like a hinge, and when the pressure is removed it can be bent back to its original position without injury to the wires.

The 4-inch mesh (Specification F), is especially adapted for Lawns, Gardens, Summer Houses, Grape Arbors, Trellises, Hay-mows, or any general purpose for which a fairly close meshed fabric is required. Actual size of mesh, or opening, is shown on page 17.

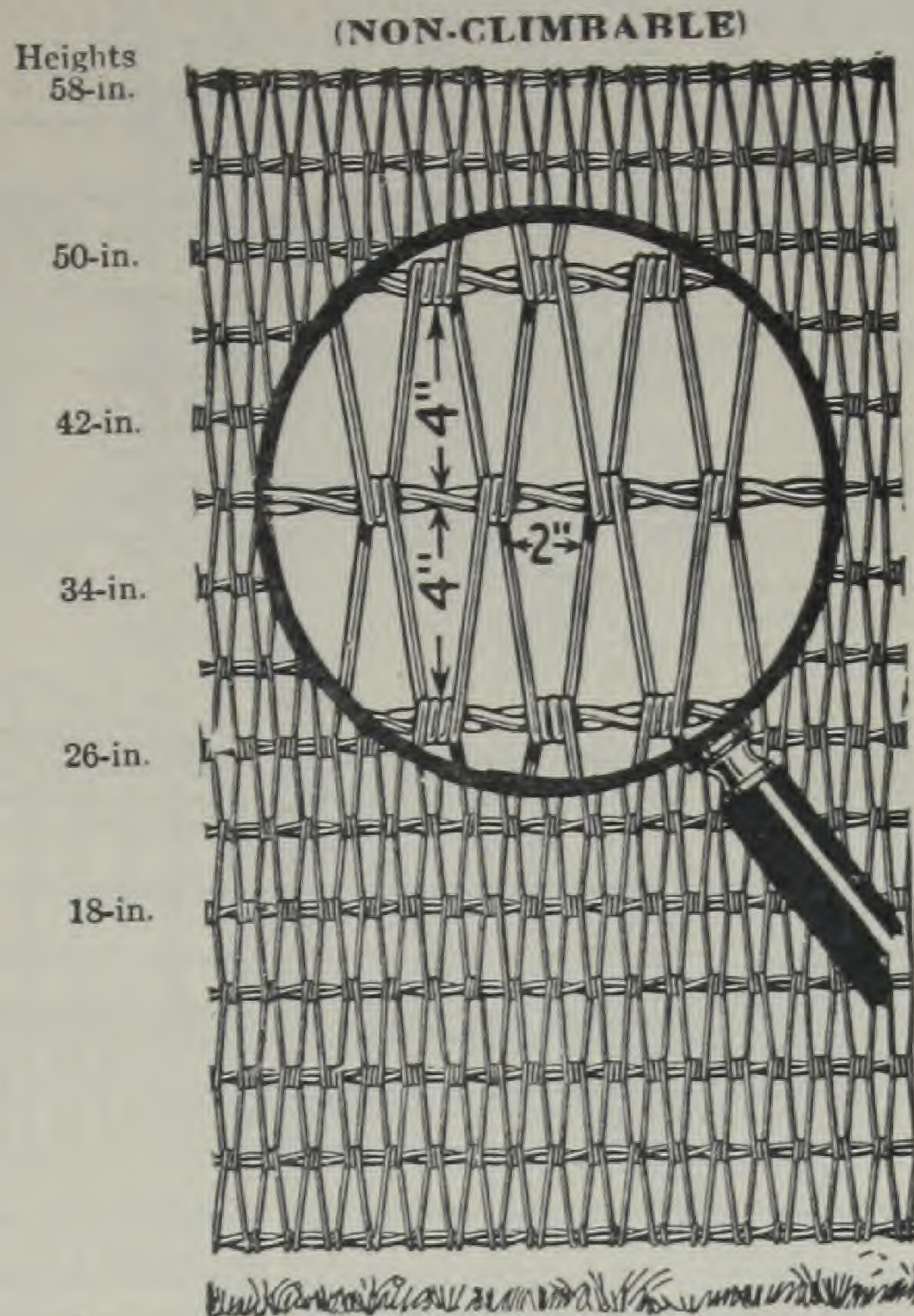
The 2-inch mesh (Specifications I, J, and K) on account of its close spacing, is *non-climbable*. The closer spacing also increases the strength and durability of the fabric. Actual size of mesh, or opening, is shown on page 17. These styles are extensively used around Fair Grounds, Golf Links, Race Tracks, Ball Parks, Tennis Courts, School Yards, Factories, Cemeteries, Orchards, and for other similar purposes requiring a heavier fabric.

Diamond Lawn Fence, when erected on our Galvanized Steel Posts, is attractive in appearance and gives the maximum service. Gates to match above fence shown on page 22.

Diamond Lawn Fence



4-INCH MESH
Specifications F

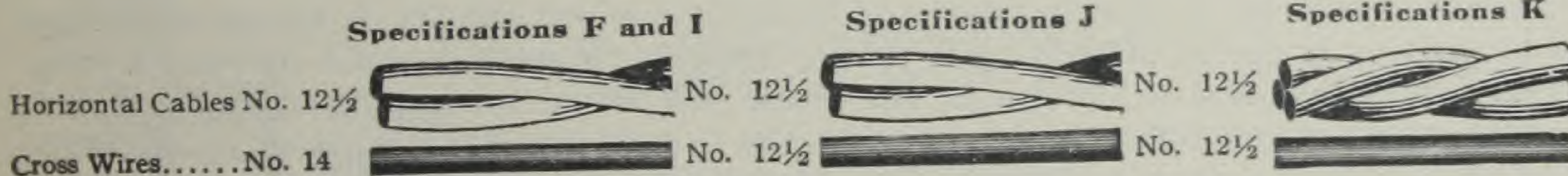


2-INCH MESH
Specifications I, J, and K

Made in Six Heights and Three Styles

Furnished in 10 and 20-Rod Rolls

Actual size of wires and cables as follows:



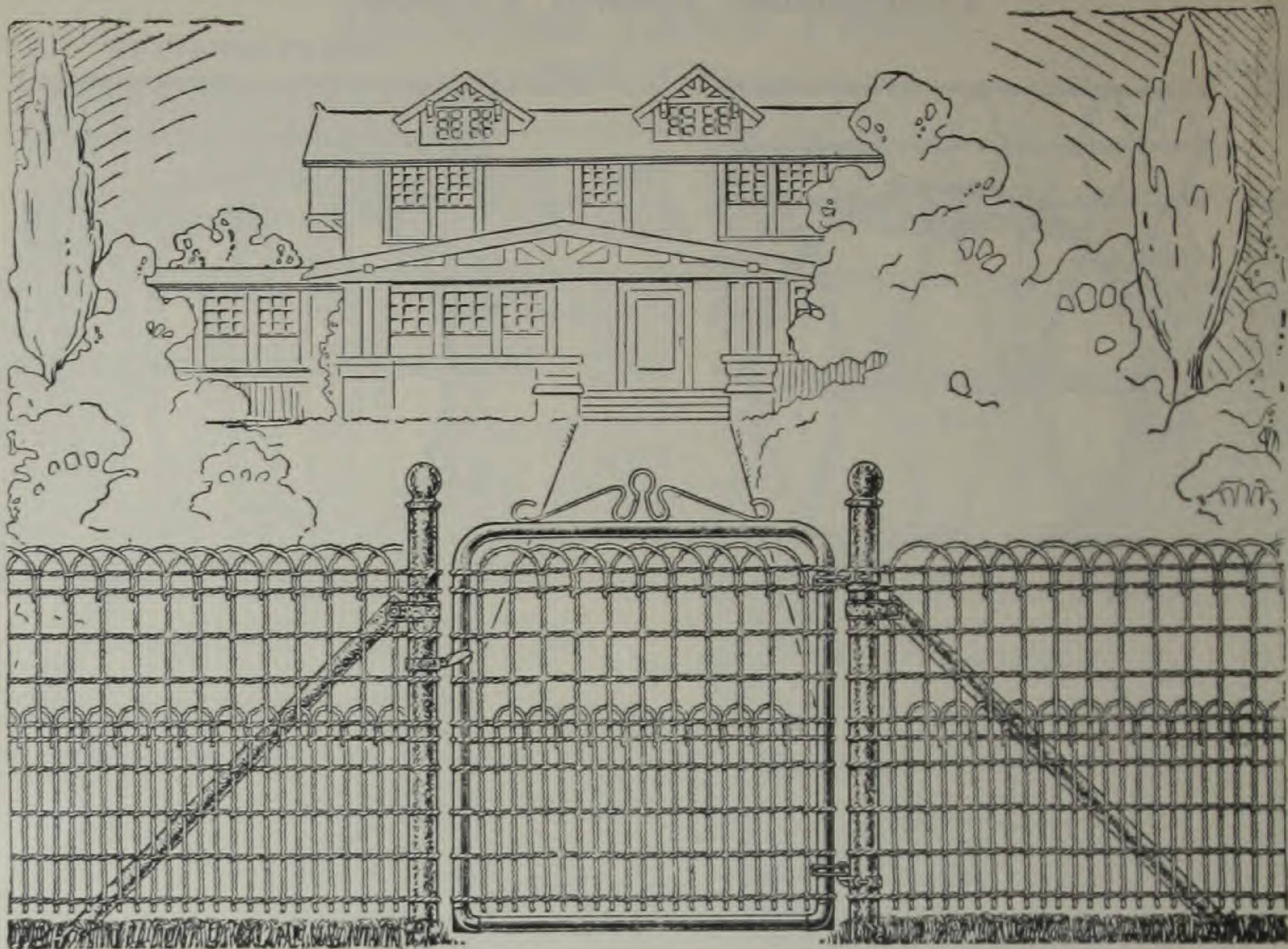
Heights and Weights

(Directions for ordering above fence, shown on page 30)

Approximate Height in Inches	Number of Horizontal Cables	Specifications F 2-Strand No. 12½ Cables No. 14 Cross Wires	Specifications I 2-Strand No. 12½ Cables No. 14 Cross Wires	Specifications J 2-Strand No. 12½ Cables No. 12½ Cross Wires	Specifications K 3-Strand No. 12½ Cables No. 12½ Cross Wires
		Approximate Weight per Rod in Pounds	Approximate Weight per Rod in Pounds	Approximate Weight per Rod in Pounds	Approximate Weight per Rod in Pounds
58	15	21 6	29 4	38 3	44 6
50	13	18 7	25 3	32 9	38 4
42	11	15 7	21 2	27 6	32 2
34	9	12 7	17 2	22 2	26 0
26	7	9 7	13 1	16 9	19 8
18	5	6 8	9 0	11 5	13 6

Ask Your Dealer for Prices

American Lawn Fence



The American Lawn Fence is made of stiff steel wire pickets of all No. 9½ wire, firmly bound together with lateral cables made up of two strands of No. 13 tough steel wire—all thoroughly galvanized to be proof against weather conditions.

This fence is of the greatest durability and strength, and holds its shape admirably when stretched taut and firmly fastened as all fences should be. The construction is such as to allow a degree of flexibility, which should be taken advantage of in putting it up by stretching it to the utmost. Stretch it until the cables sing. Then firmly fastened to the posts, the fence will retain further elasticity sufficient to take care of contraction and expansion due to cold and heat, without showing the slightest departure from a straight line appearance, so essential for the utility and durability as well as the looks of a fence.

The American Lawn Fence belongs to the class of woven wire fences where grace of fabric is linked with usefulness, strength and lasting qualities. As such it is largely used around lawns, for the fencing of front yards, for flower beds, for division fences between residences, and in the many ways where utility and beauty are to be combined.

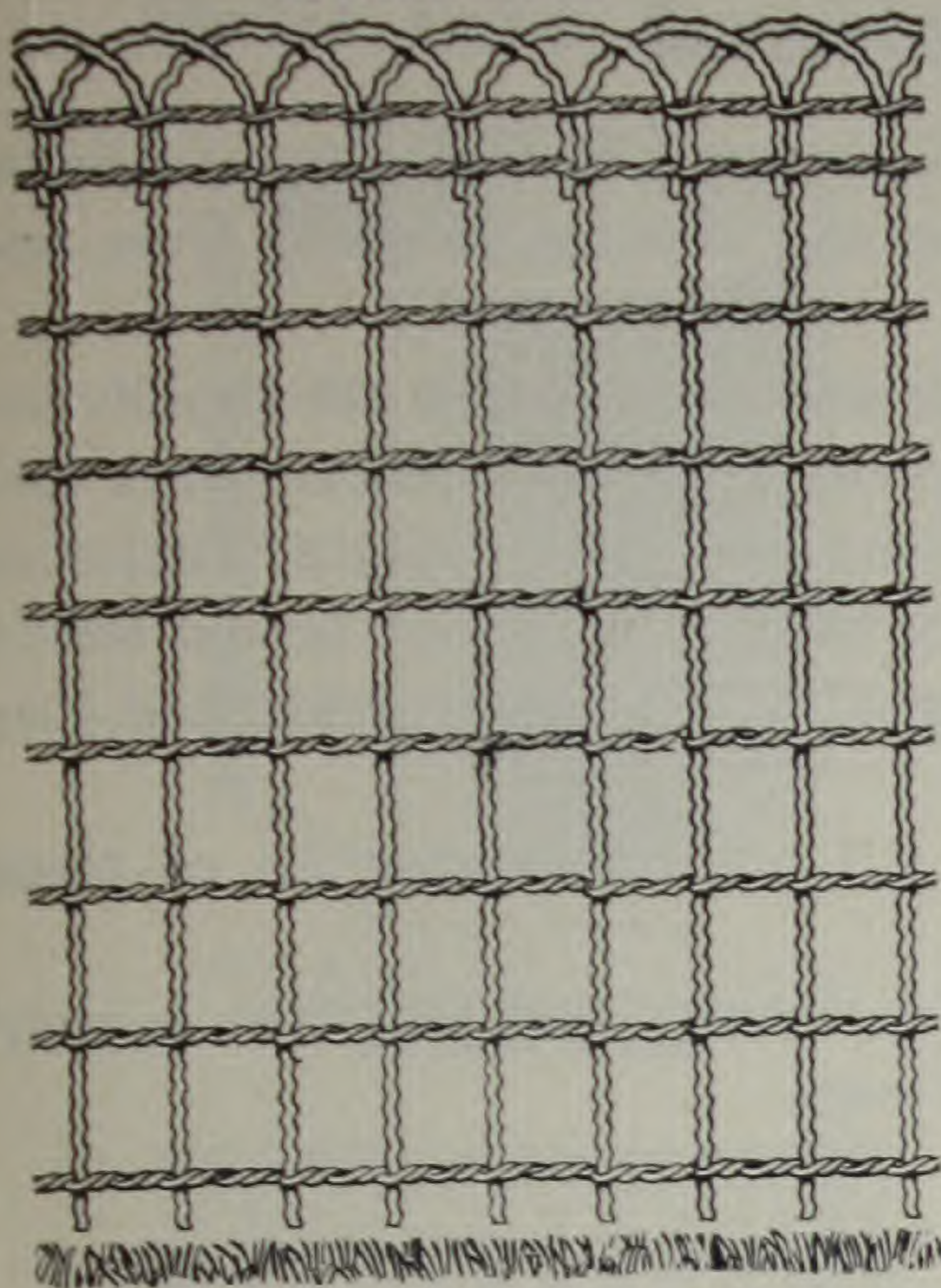
It is furnished in 2 styles: Single Loop design, with pickets spaced 3 inches apart, and Double Loop pattern, with pickets spaced 3 inches apart at the top, and 1½ inches apart at the bottom.

This fence is "non-climbable," which means much to those who desire also to fence against the human tendency to seek a "toe hold" in a fence fabric and climb over. The stout, smooth steel pickets of the American Lawn Fence present no resting place for the toe, and discourage even any attempt at mounting.

American Lawn Gates are made to match the fence, and with handsome American steel fence posts present a frontage of strength and beauty excelled only by the expensive structures of wrought steel. Gates shown on page 23.

American Lawn Fence

SINGLE LOOP

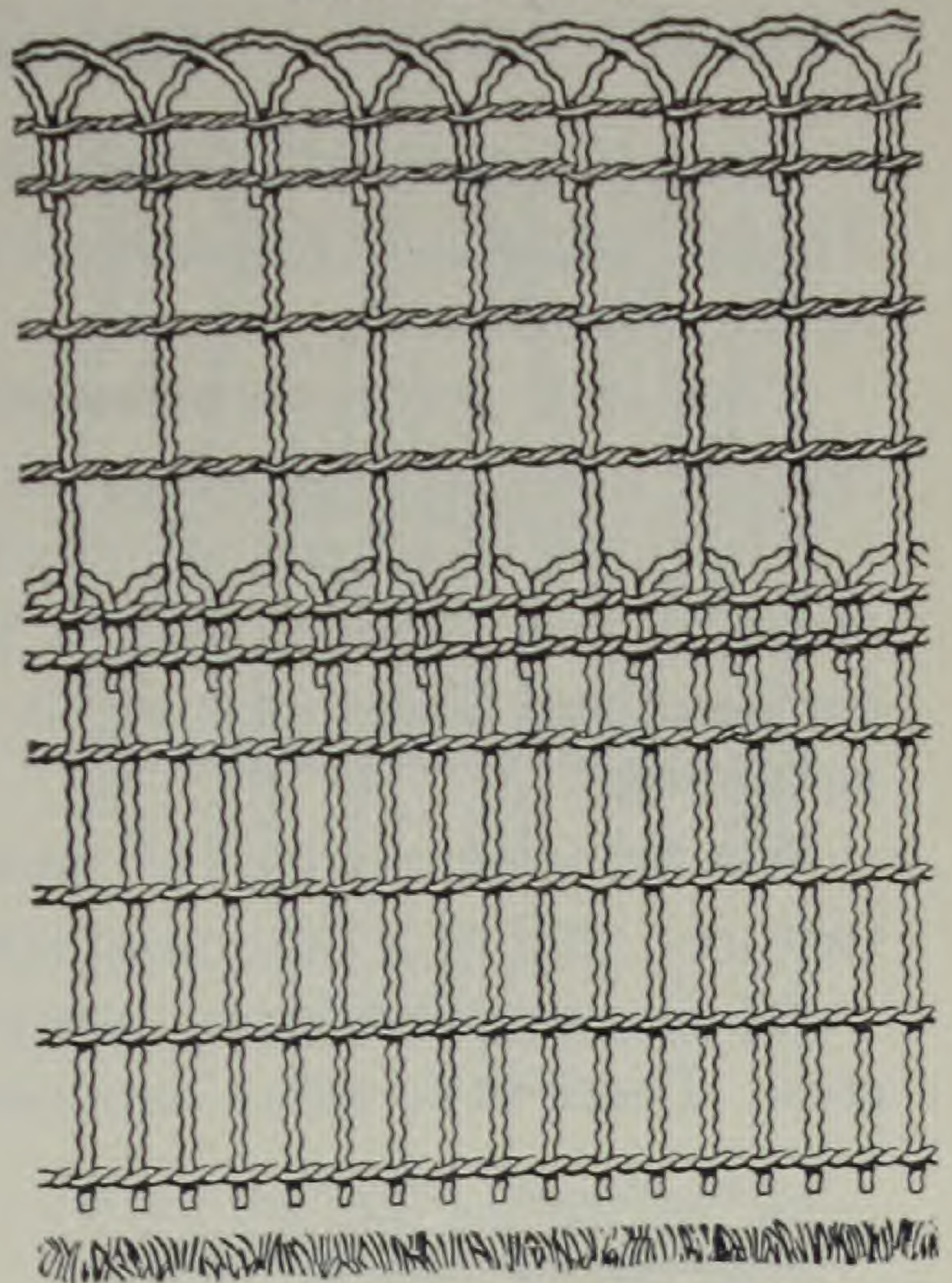


Specification 3-inch S. L.

Pickets, 3 inches apart.

Made in five heights as listed below.

DOUBLE LOOP



Specification D. L.

Pickets, 3 inches apart at top.

Pickets, 1½ inches apart at bottom.

Made in five heights as listed below.

Cables 6 inches apart.

Sizes of Wires as Follows:

PICKETS:—No. 9½
Galvanized Crimped
Steel Wire.....



HORIZONTAL
CABLES:—Two No.
13 Galvanized Steel
Wires.....



DISTANCE
BETWEEN
CABLES
IN INCHES

54-
inch

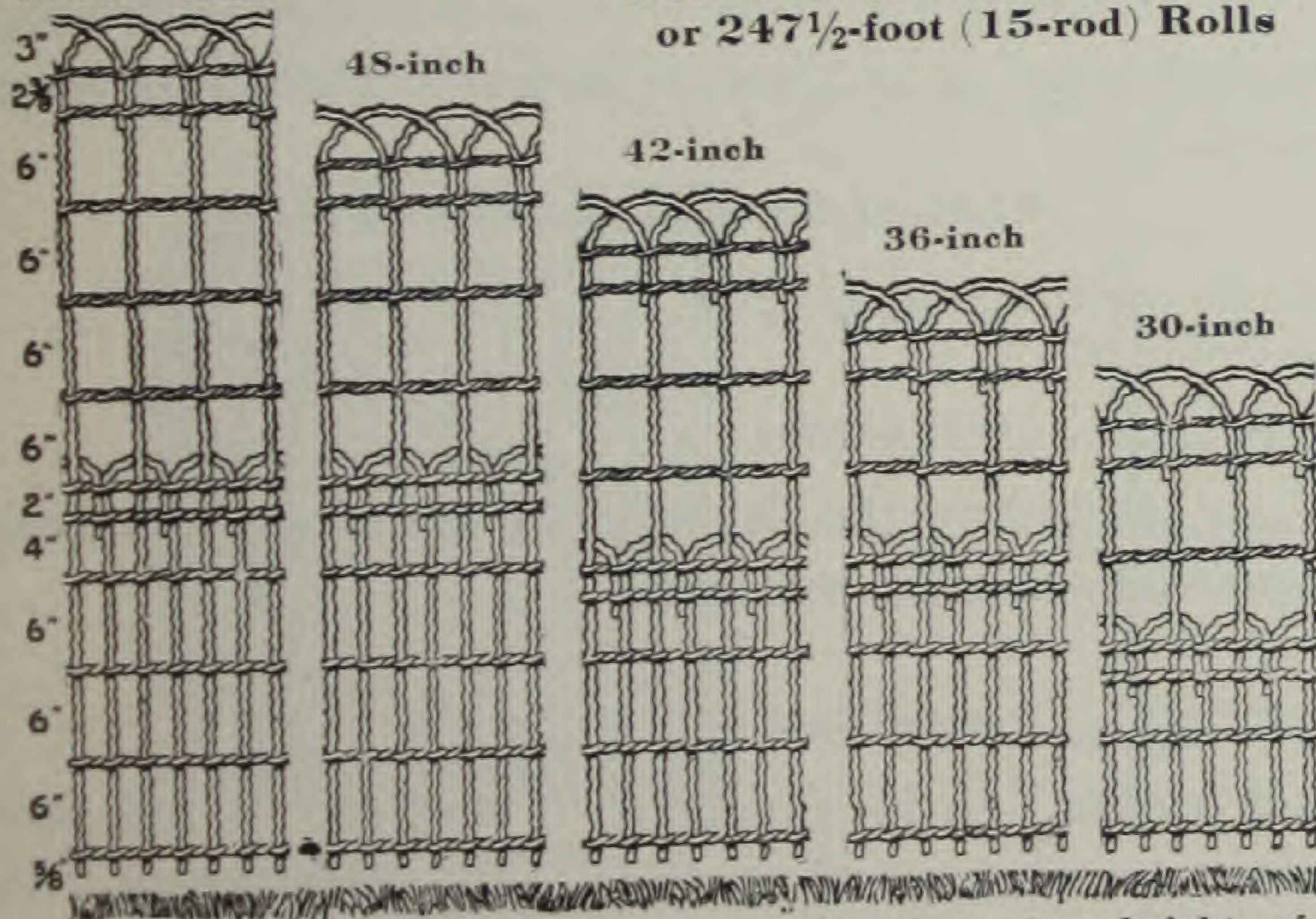
48-inch

42-inch

36-inch

30-inch

Furnished in 165-foot (10-rod)
or 247½-foot (15-rod) Rolls



Heights

3-In. SINGLE LOOP Specification 3-inch S. L.	DOUBLE LOOP Specification D. L.
Approx. Height in Inches	Approx. Height in Inches
30	30
36	36
42	42
48	48
54	54

This illustration shows position of lower loop in various heights of double loop fence.

American Galvanized Gates

Tubular Steel Frames

Every farmer today realizes the importance of Gates on the farm. The generous use of Gates saves time and expense in going from one field to another.

Timber is getting scarcer every day and Steel Gates are rapidly replacing wood gates, just as wire fences replaced wood fences years ago.

The ideal Gate must be of sufficient weight to insure maximum strength and rigidity, but at the same time it must not be too heavy for handling. Furthermore, it must be simple in construction and easy to operate.

We have succeeded in producing a Gate embodying all of these features, and at a minimum cost.

All Gates are shipped complete with fittings and first cost is total cost. There is no extra expense for fittings.

Construction

Frame

The Gate frame is made of heavy galvanized seamless tubing specially suited for the purpose. The corners at the bottom are squared, thus closing the space between the Gate and the Post.

Covering or Filler

Our standard covering is a 2-inch diamond mesh truss formation with lateral wires of Number 10 gauge and cross wires of Number 12½ gauge. Other fabrics can be furnished as you will note from succeeding pages.

Width of Gates

Gates are made to fit openings as given.

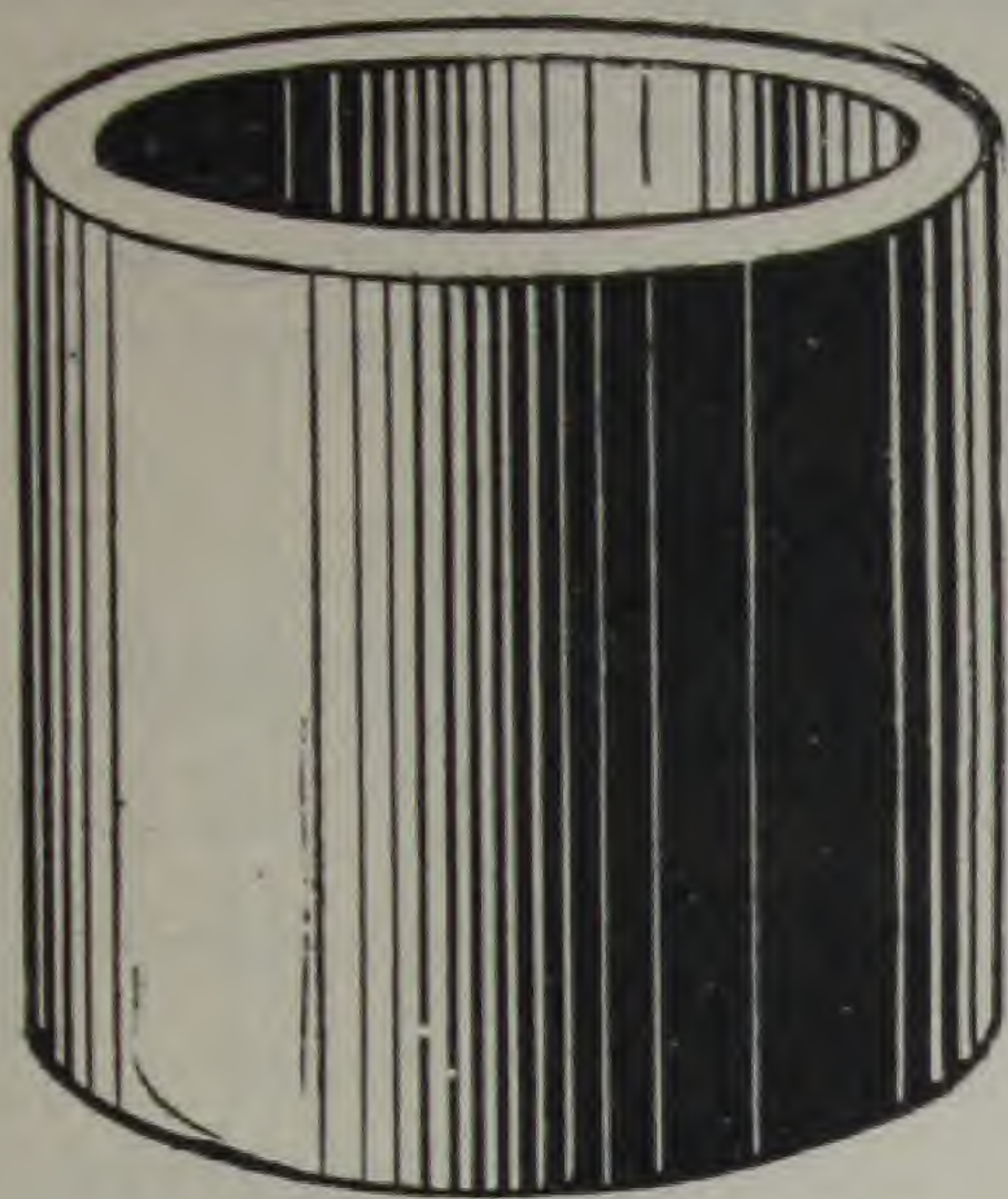
Galvanizing

All parts of the Gate, including the fittings, are thoroughly Galvanized by the most improved scientific methods.

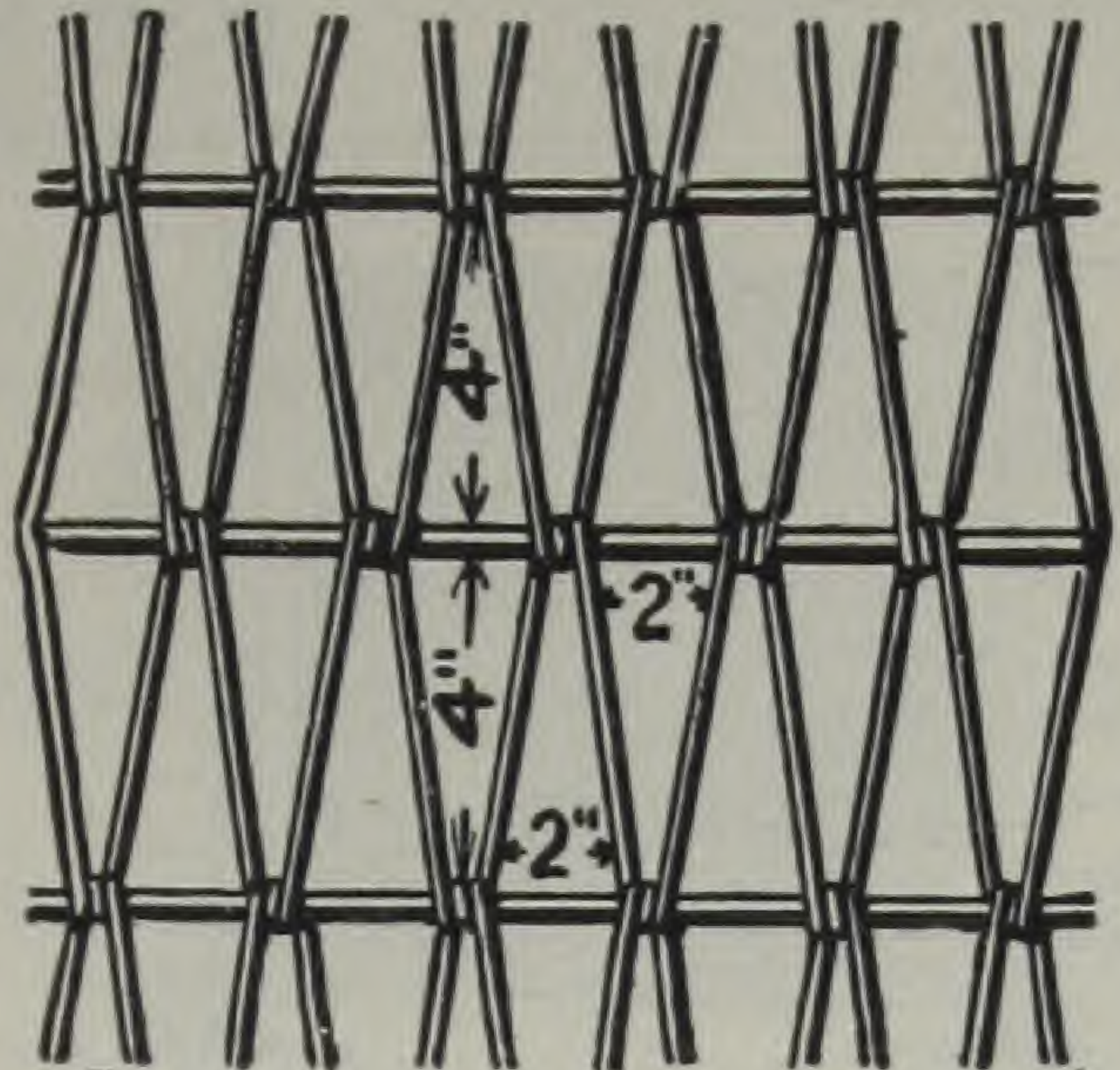
Painted Gates

Gates with painted frames can be furnished if desired. A red paint is used, having better wearing quality than any other color. We recommend galvanized frames because they last longer.

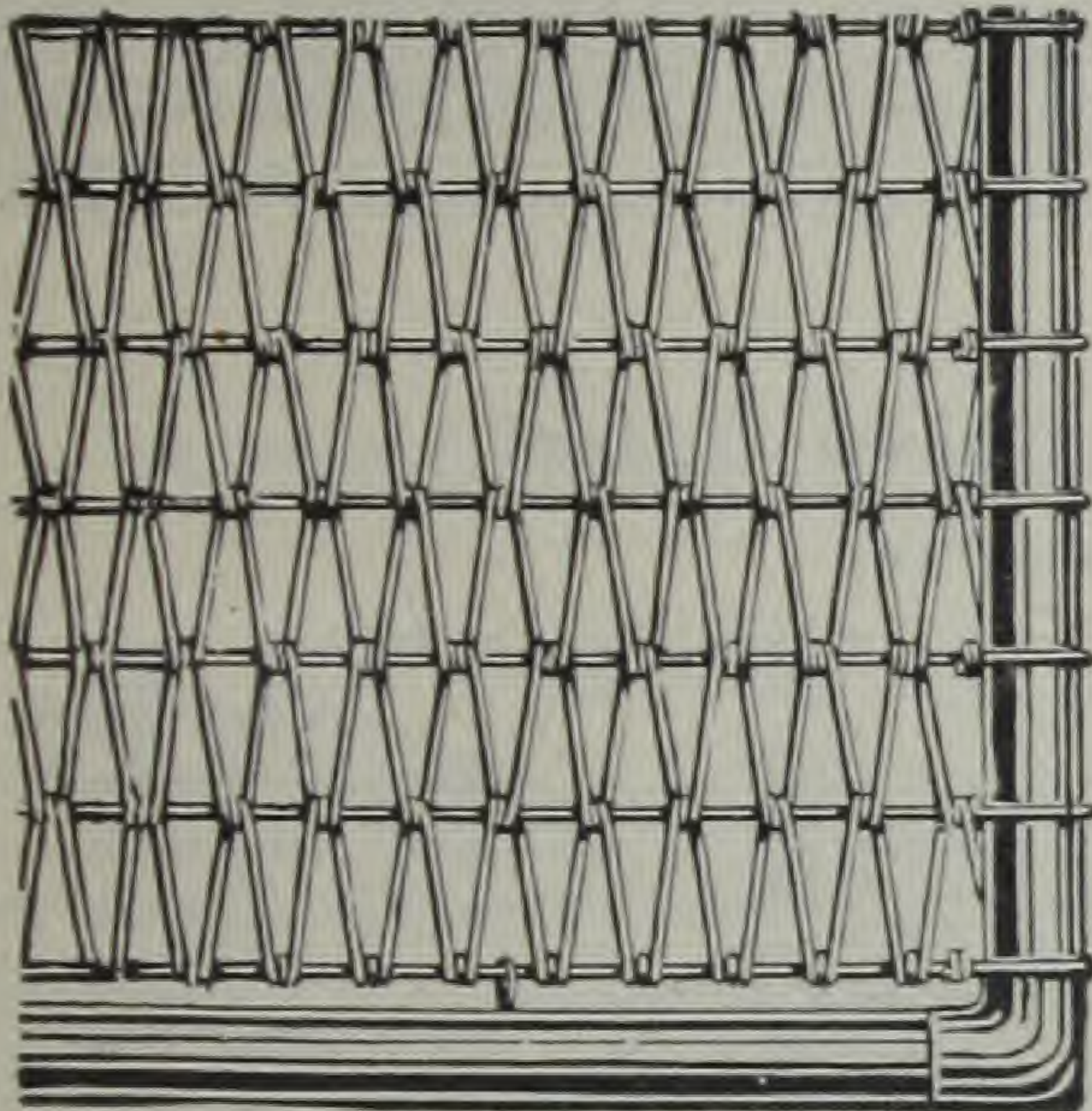
Quality Features Built Into American Tubular Steel Gates



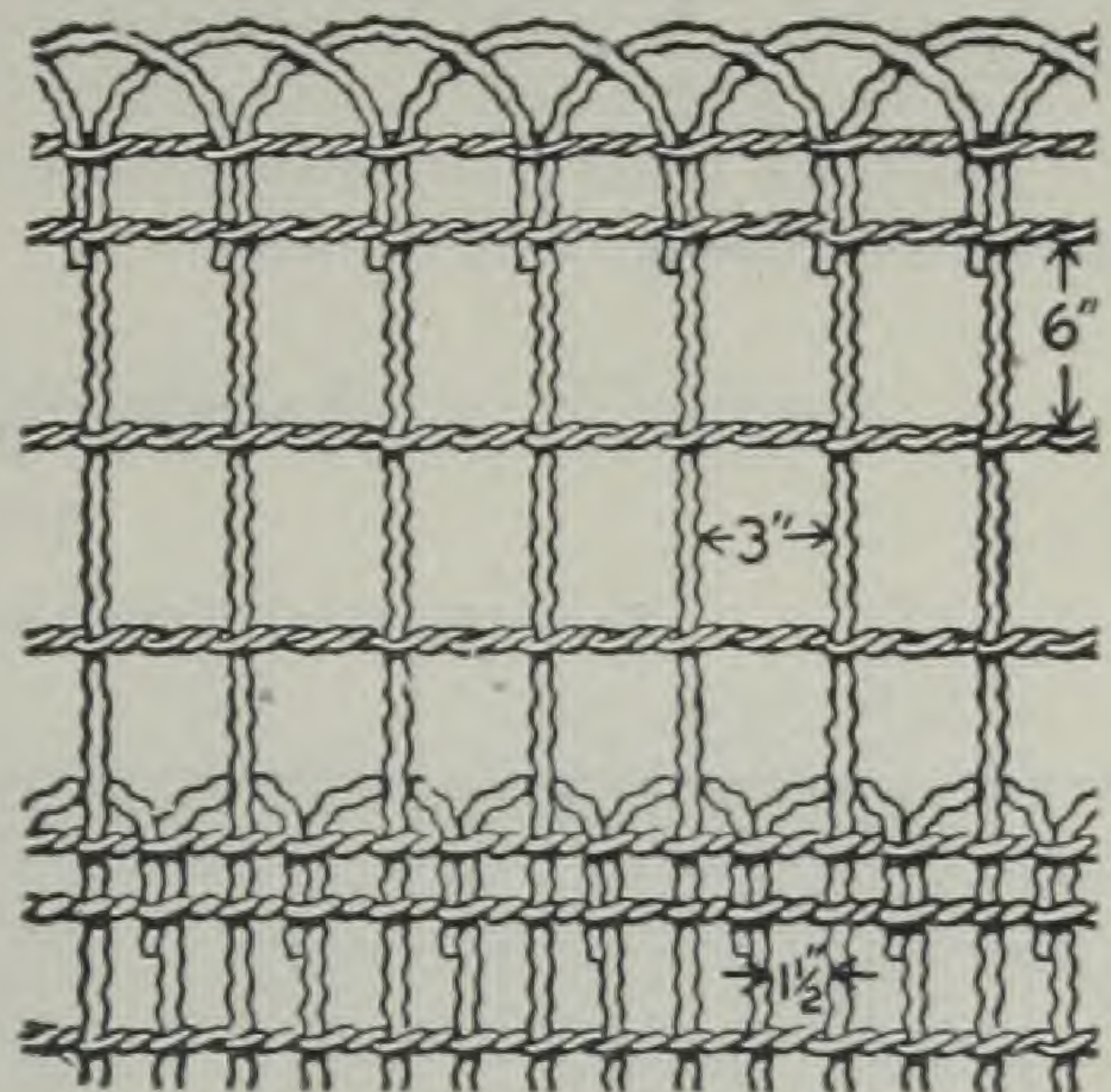
Tubular Frames
Made of Large New National Tubing.
Strength and Lightness Combined.
No Open Seams



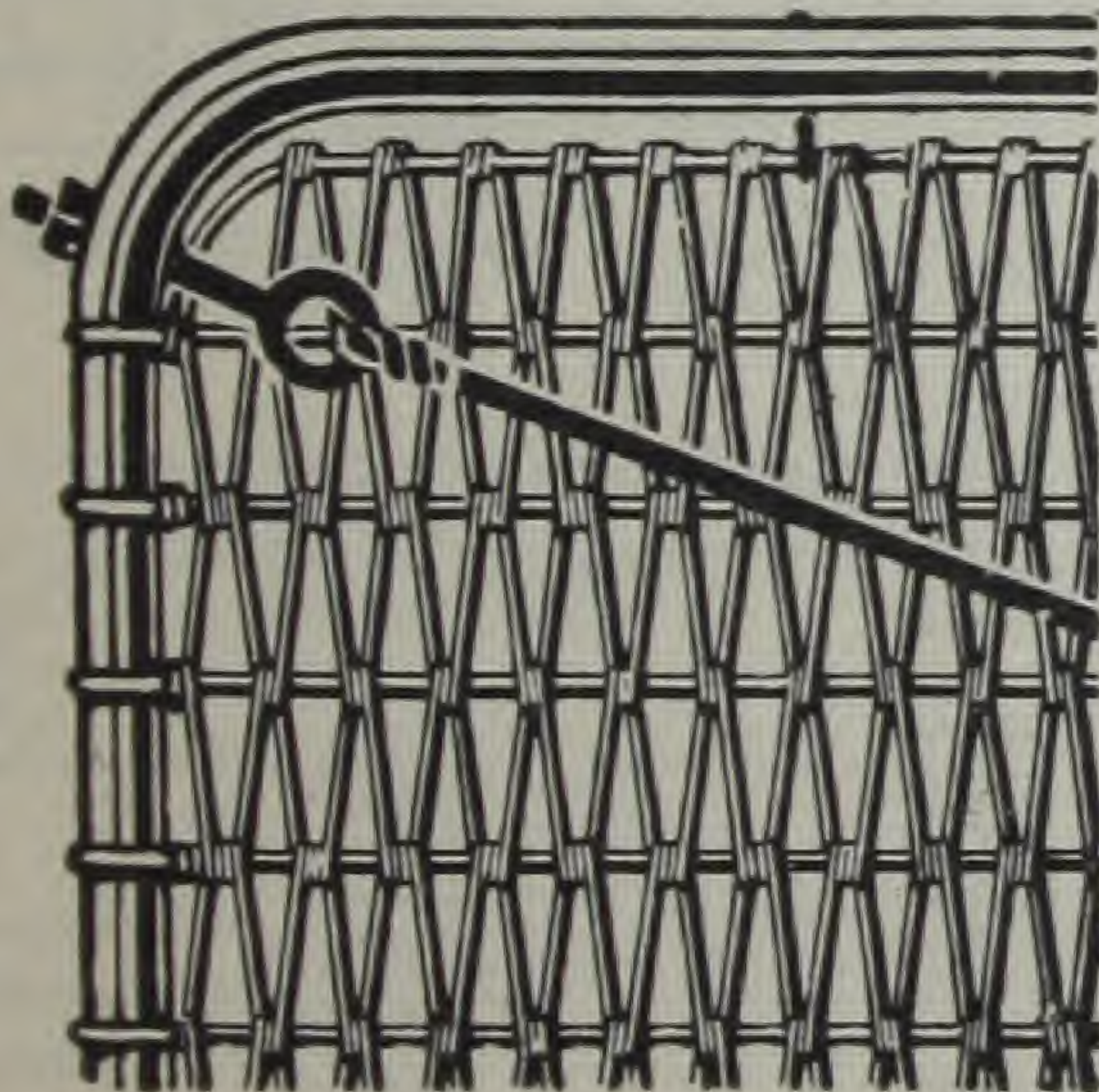
Fabric or Filler
Used in American Walk, Poultry Yard, and
Single Drive Gates.
Lateral Wires No. 10; Cross Wires No. 12½.
Non-Climbable



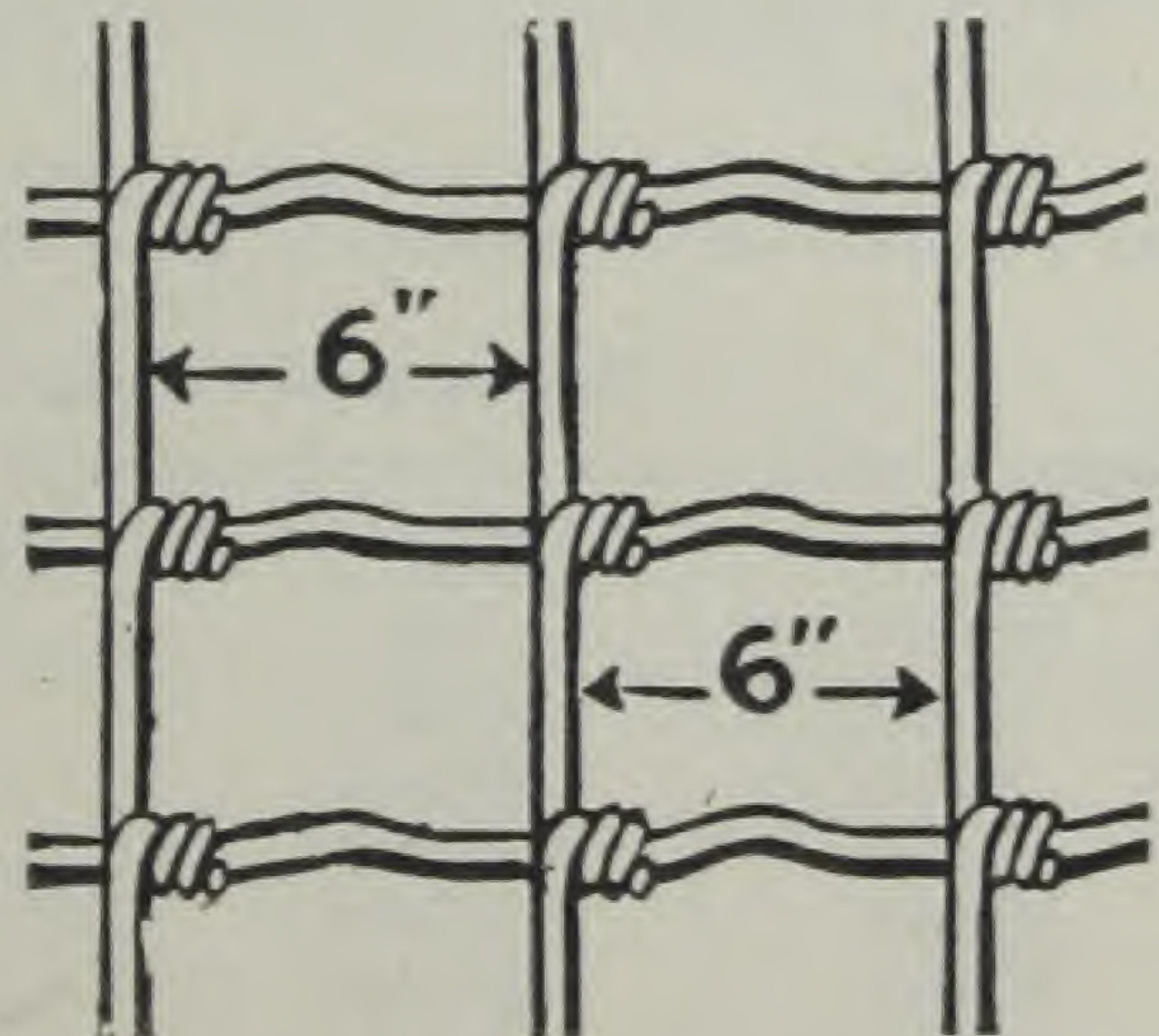
Square Corners
At the Bottom of All American Gates.
**Closing Space Between
Gate and Posts**



Fabric or Filler
Used in American Lawn Gates.
Horizontal Cables, 2 ply No. 13. Pickets No. 9½ Gauge.
Ornamental and Non-Climbable



Diagonal Brace Rod
Used in Single Drive and
Park and Paddock Gates.
Gives Additional Support to Frame.
Prevents Sagging



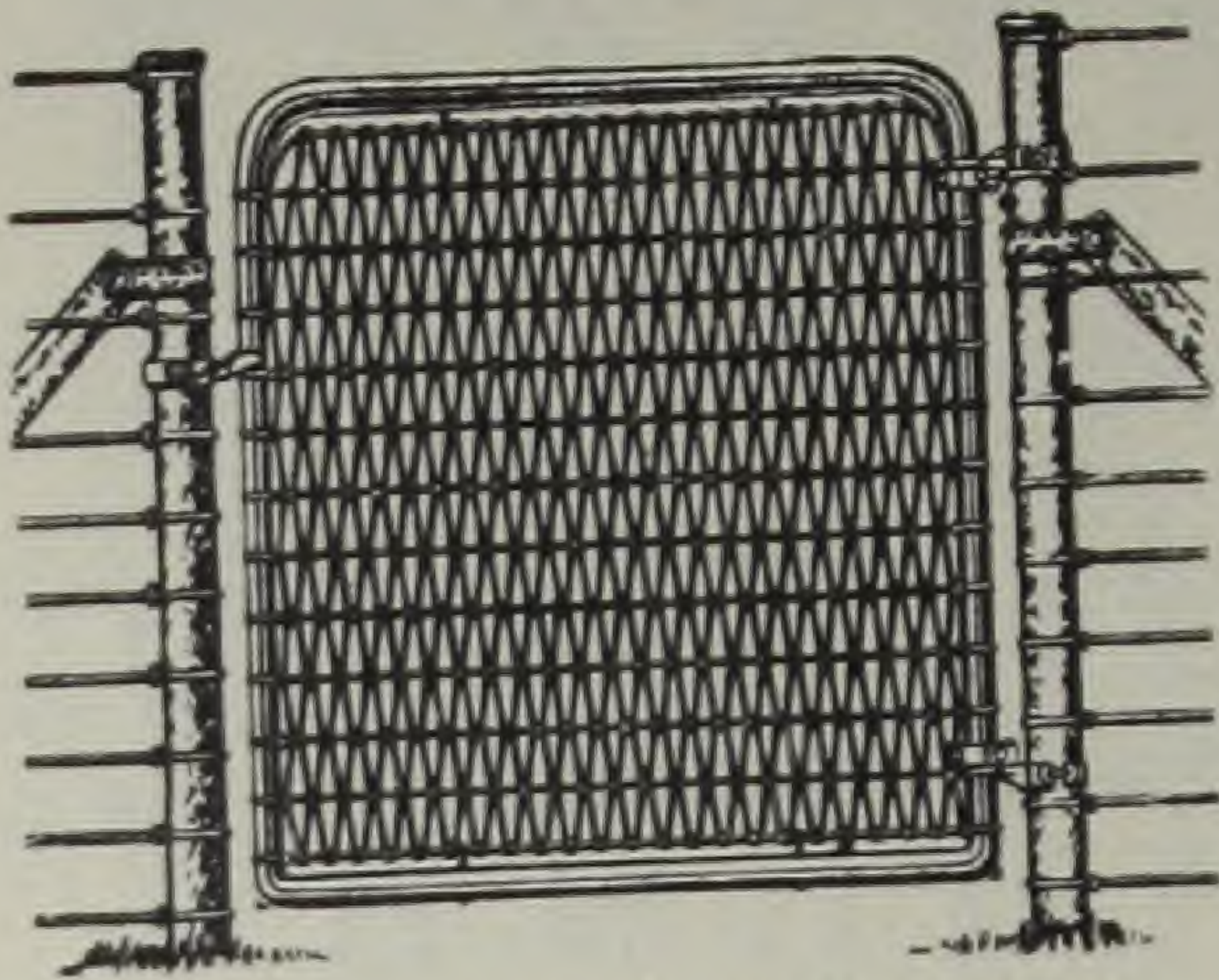
Fabric or Filler
Used in American Park and Paddock Gates.
Full Gauge No. 9 Wire Throughout. Heavily Galvanized.
Hog-Tight Spacing

American Walk and Single Drive Gates

American Walk Gate

PLAIN AND ORNAMENTAL TOP

Furnished with Galvanized or Red Painted, Tubular Steel Frames



Plain Top American Walk Gate

Sizes and Weights of American Walk Gates

Width of Opening	Approximate Height of Gate	Approximate Weight, Pounds
3 feet	42 inches	19
3 feet	50 inches	21
3 feet	58 inches	23
3½ feet	42 inches	21
3½ feet	50 inches	23
3½ feet	58 inches	25
4 feet	42 inches	22
4 feet	50 inches	24
4 feet	58 inches	27

Filled with a 2-inch diamond mesh, heavily galvanized fabric, which is unclimbable. A neat looking, durable Walk Gate always adds dignity to the appearance of a well kept farm or residence. Furthermore it protects the lawn or garden from the intrusion of smaller animals.

The steadily increasing demand for American Walk Gates (with their closely spaced, diamond mesh "filler" and strong frames) is a proof of their superiority. Their construction prevents children from getting a foothold in the gate and swinging on same.

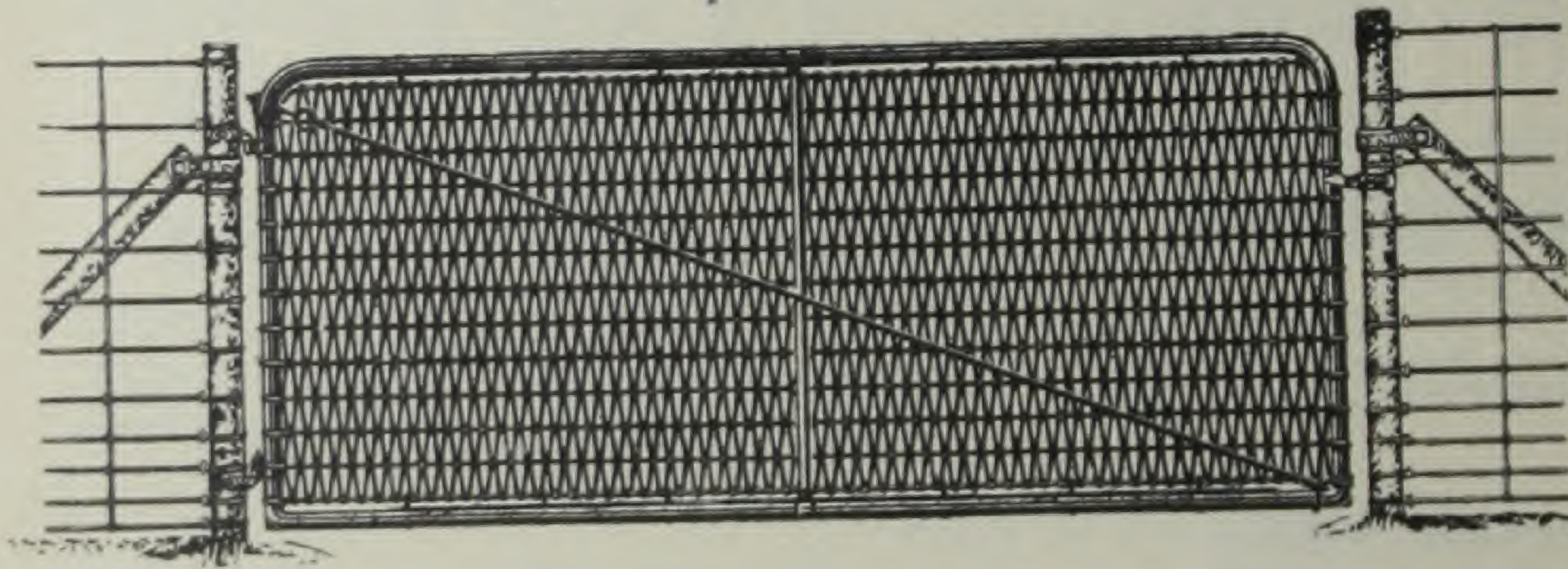
For use with 6 and 7-foot poultry fence we recommend the higher gate illustrated on page 26.

American Walk Gates come complete with latches and hinges for either wood or steel posts and are made to fit openings as given above.

American Single Drive Gates

Plain or Ornamental Top

Furnished with Galvanized or Red Painted, Tubular Steel Frame



American Single Drive Gate is a strong, non-climbable, and economical farm gate. Universally recognized for its simplicity and durability. In addition to upright tubular brace, the frame is supported by a diagonal brace rod which keeps it firm and prevents sagging. Two upright braces in 12 and 14-foot gates; one brace in 8 and 10-foot gates.

American Single Drive Gates come complete with latches and hinges for either wood or steel posts and are made to fit openings as given below.

Sizes and Weights of American Single Drive Gates

Width of Opening	Approximate Height of Gate	Approximate Weight Pounds	Width of Opening	Approximate Height of Gate	Approximate Weight Pounds
8 feet	42 inch	53	12 feet	42 inch	65
8 feet	50 inch	57	12 feet	50 inch	71
8 feet	58 inch	63	12 feet	58 inch	77
10 feet	42 inch	56	14 feet	42 inch	73
10 feet	50 inch	61	14 feet	50 inch	80
10 feet	58 inch	67	14 feet	58 inch	87

Ask Your Dealer for Prices

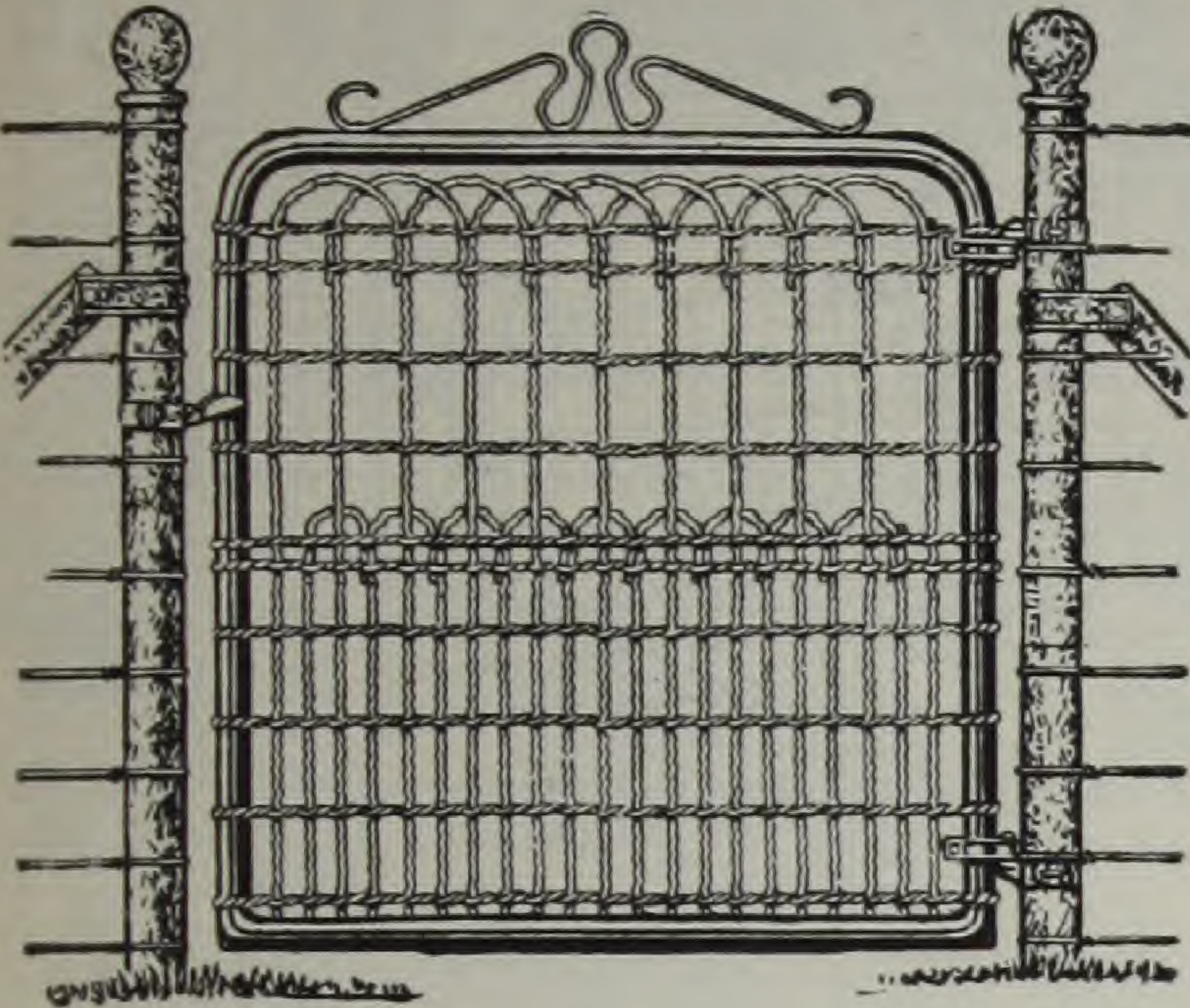
(Directions for ordering American Gates shown on page 30)

American Lawn, Walk and Single Drive Gates

Made with Ornamental Top Only

For use in connection with American Lawn Fence. Both Walk and Single Drive Gates furnished in heights 36, 42 and 48 inches. Covered with American Lawn Fence, Double Loop Fabric Pickets 1½ inches apart in bottom section and 3 inches apart in top section.

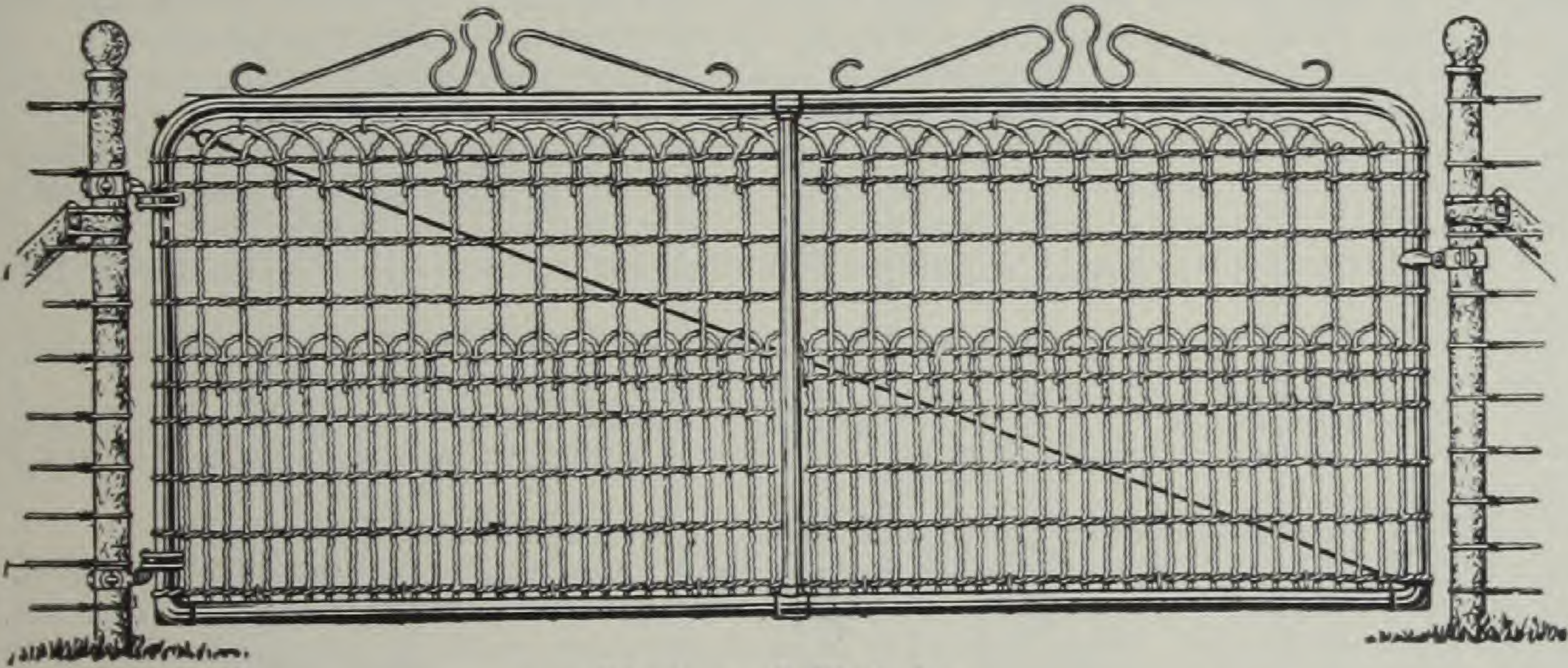
American Lawn Gates come complete with latch and hinges for Wood or Steel Posts as desired, and are made to fit openings as given below



American Lawn Walk Gates
 Sizes and Weights

Width of Opening	Approximate Height of Gate	Approximate Weight Pounds
3 feet	36 inch	21
3 feet	42 inch	22
3 feet	48 inch	25
3½ feet	36 inch	24
3½ feet	42 inch	25
3½ feet	48 inch	27

American Lawn Single Drive Gates



Sizes and Weights
 American Lawn Single Drive Gates

Width of Opening	Approx. Height of Gate	Approx. Weight Pounds	Width of Opening	Approx. Height of Gate	Approx. Weight Pounds	Width of Opening	Approx. Height of Gate	Approx. Weight Pounds
10 ft.	36 in.	63	12 ft.	36 in.	74	14 ft.	36 in.	84
10 ft.	42 in.	65	12 ft.	42 in.	76	14 ft.	42 in.	86
10 ft.	48 in.	72	12 ft.	48 in.	84	14 ft.	48 in.	95

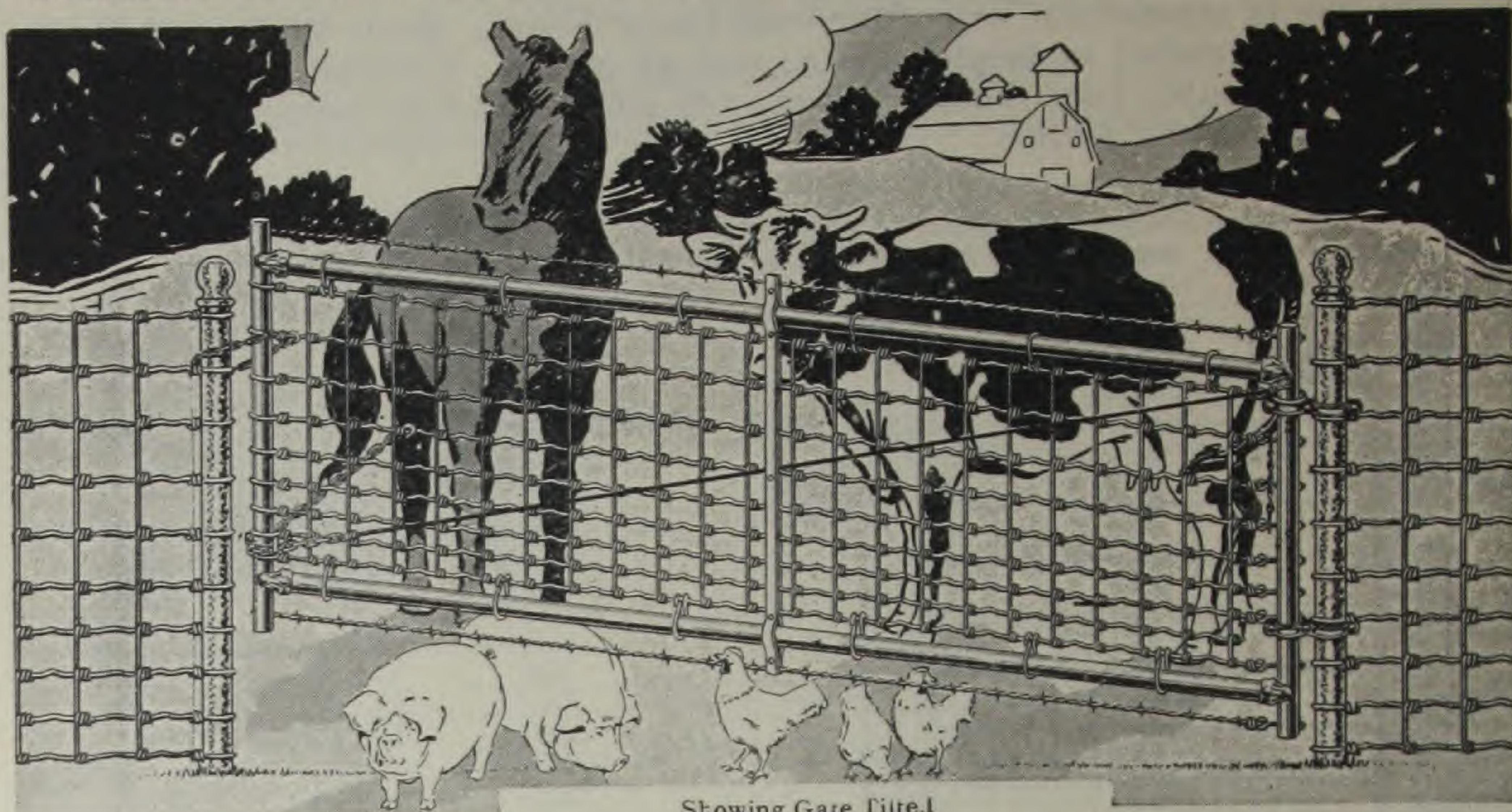
Gates furnished with Galvanized or Red Painted Frames.
 American Lawn Fence to match shown on pages 18 and 19.

Ask Your Dealer for Prices

(Directions for ordering American Gates shown on page 30)

New American Tilting Gate

Furnished with Red Painted or Galvanized Frame—Barbed Wire Top and Bottom



Showing Gate Tilted

Made in two heights—50 or 55-inch—and four widths to fit openings 10, 12, 14 or 16 feet wide. The new American Tilting Gate offers the greatest value and most efficient service of any farm gate on the market. It is a combination tilting and lift gate which can be used in four different positions—tilted, raised, tilted and raised, or closed. It can be tilted at one end (23 to 36 inches) so that small stock may rotate from field to field, or the entire gate may be raised 6 inches, to swing clear of snow and ice. It has ten distinctive features:

FRAME. Made of large new National steel tubing—1.66 inches in diameter—which has no open seams. Same size tubing on all four sides of gate. Painted red or heavily galvanized.

BRACE. A strong double channel iron brace in center of gate adds strength to frame. It extends around the top and bottom tubing and holds barbed wire.

FABRIC. The fabric or filler is made from full gauge wire throughout, having No. 9 wires at top and bottom and No. 11 filler wires, all heavily galvanized. Upright or stay wires only 6 inches apart.

TILTING DEVICE. Does away with heavy lifting. Gate may be raised with one hand to proper angle and locked from either side by slipping a link of chain into the slot (or lock-notch) provided for that purpose.

RAISING DEVICE. The entire gate may be raised about 6 inches to clear snow and ice, by raising the gate in its hinges and placing a steel pin through hole in frame.

TIGHTENING DEVICE. Heavy screw-eye bolts are placed through end bar of gate and attached to each bar wire in fabric or filler. Nuts on bolts permit taking up any slack in fabric, keeping it perfectly tight.

CHAIN LATCH. All gates are furnished with strong galvanized chain latch.

DOUBLE FORK LATCH. Automatic self-locking Fork Latches can be furnished if desired. We offer two styles—one to attach to wood or steel post and another to attach to frame of gate and lock on extra bar fastened to post. When the latter is used gate posts must be set 3 inches farther apart.

HINGES. Gates can be furnished with hinges for wood or Ideal Steel Posts. The wood post hinge is a heavy eye bolt with collar, washer and nut. Two furnished with each gate. The Steel Post hinges are heavy galvanized castings.

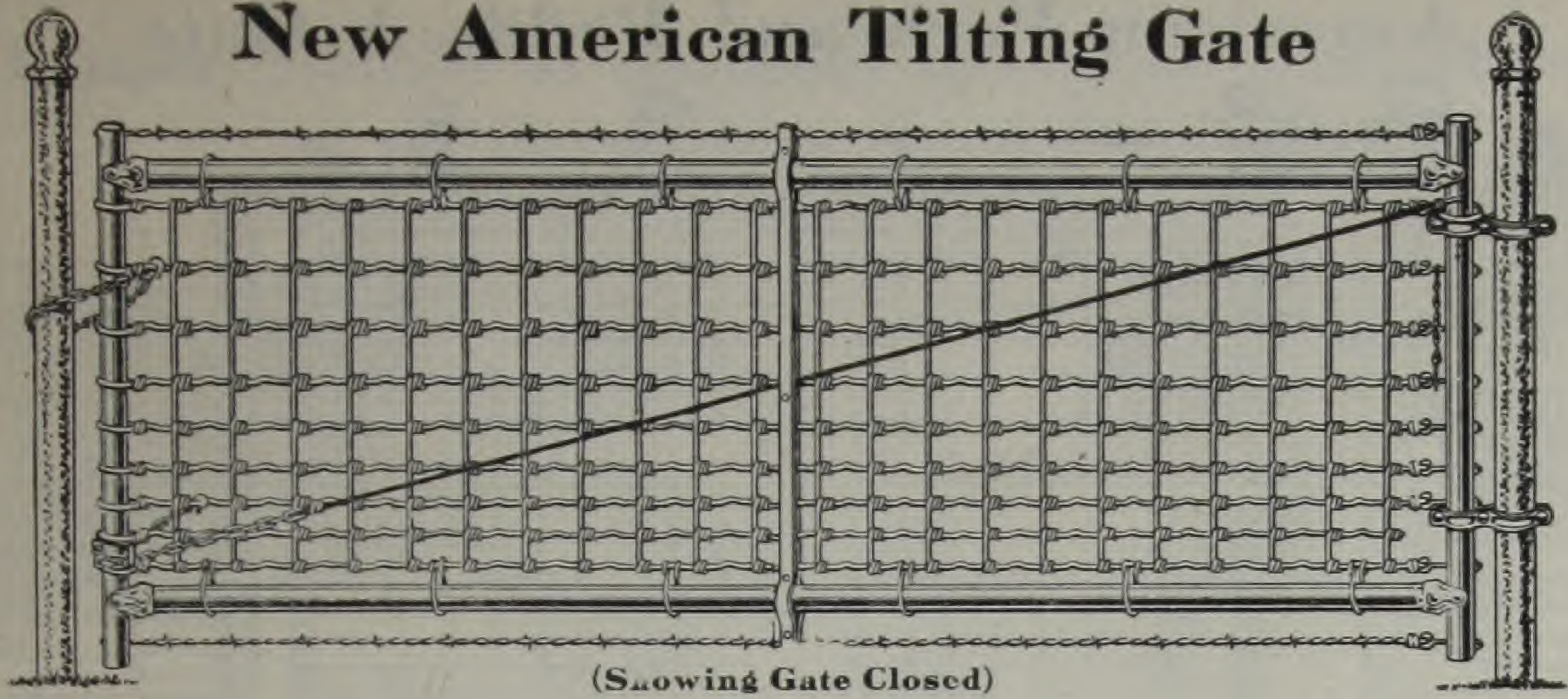
BARBED WIRE at Top and Bottom. Prevents stock from bearing down on top of gate and hogs from rooting under it. Barbed wires can be easily removed if not desired.

Sizes and Weights—Ask Your Dealer for Prices

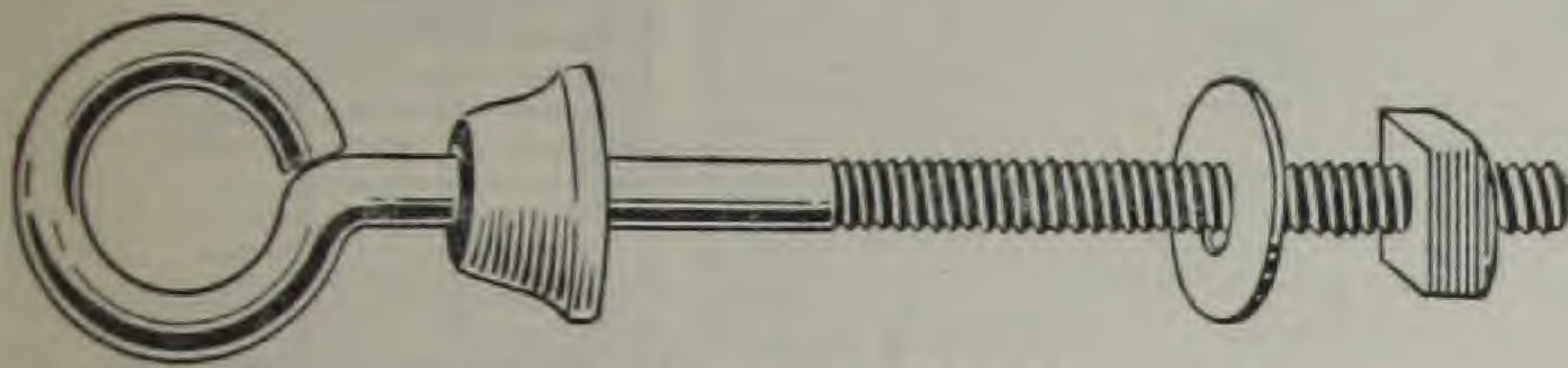
Size of Gate	Approximate Height of Gate	Approximate Weight, Pounds	Size of Gate	Approximate Height of Gate	Approximate Weight, Pounds
10 ft.	50 in.	71	14 ft.	50 in.	88
10 ft.	55 in.	74	14 ft.	55 in.	91
12 ft.	50 in.	80	16 ft.	50 in.	97
12 ft.	55 in.	82	16 ft.	55 in.	99

Hung upon our Galvanized Steel Posts, a combination is secured which insures long and satisfactory service

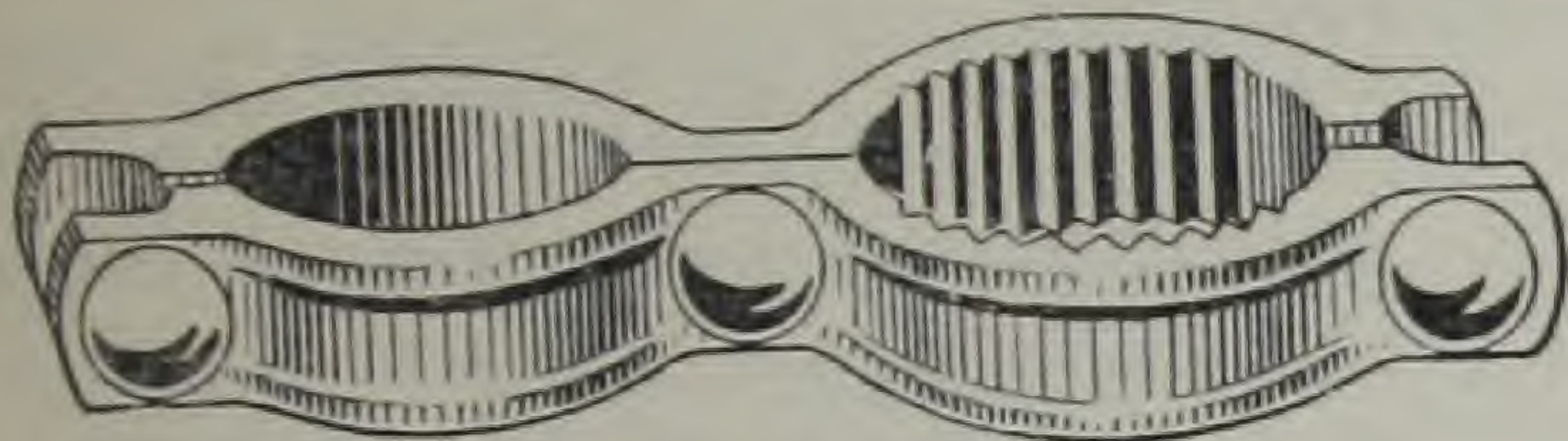
New American Tilting Gate



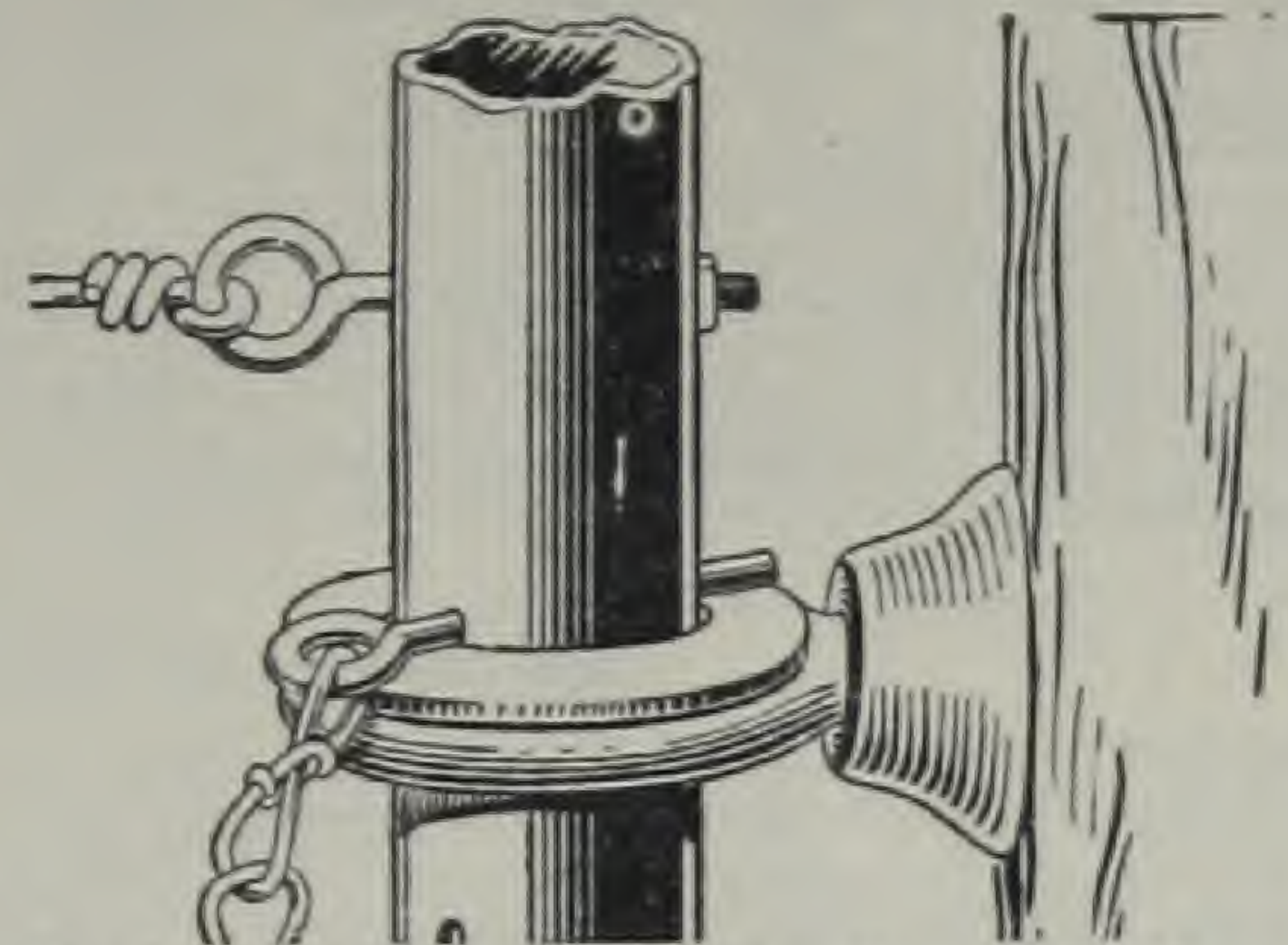
(Showing Gate Closed)



Hinge for Wood Posts



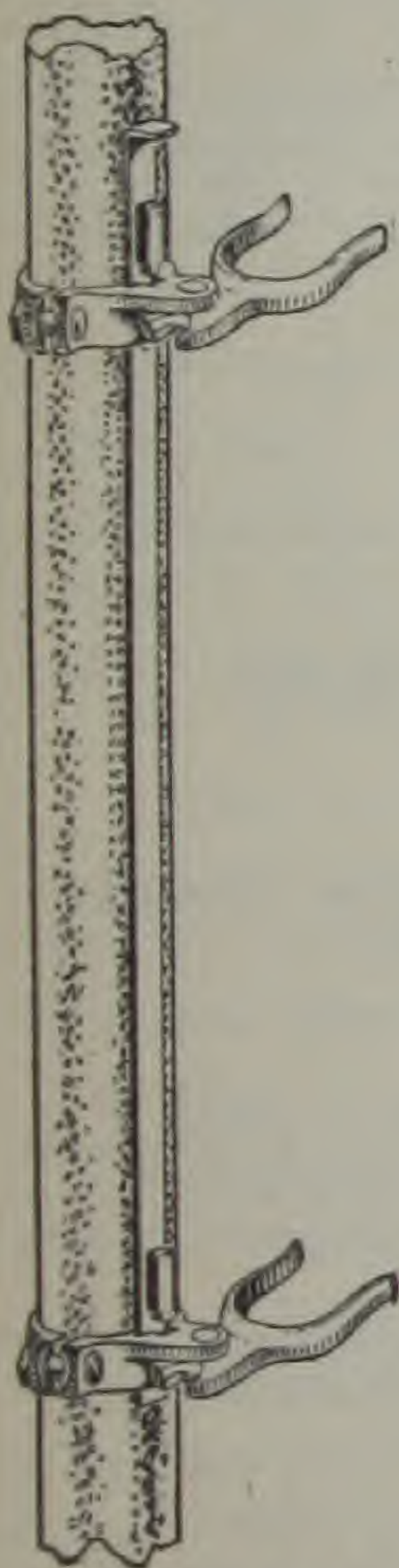
Hinge for Steel Posts



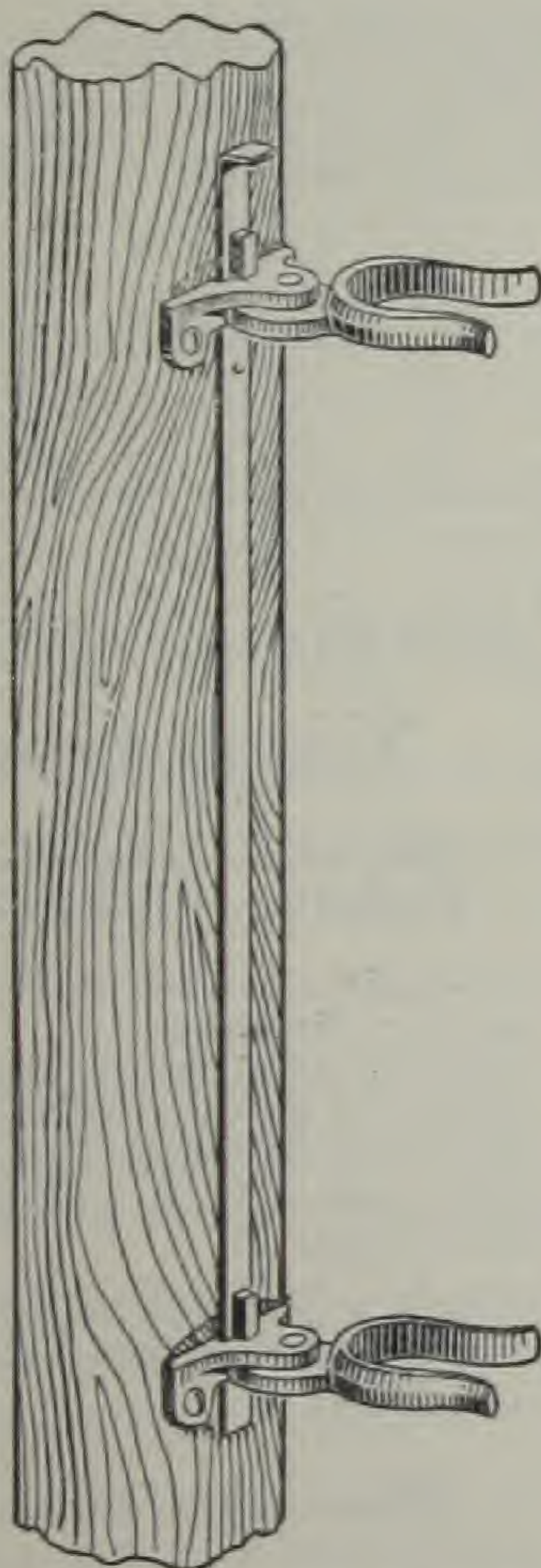
Raising Device Showing Washer and Pin Over Hinge



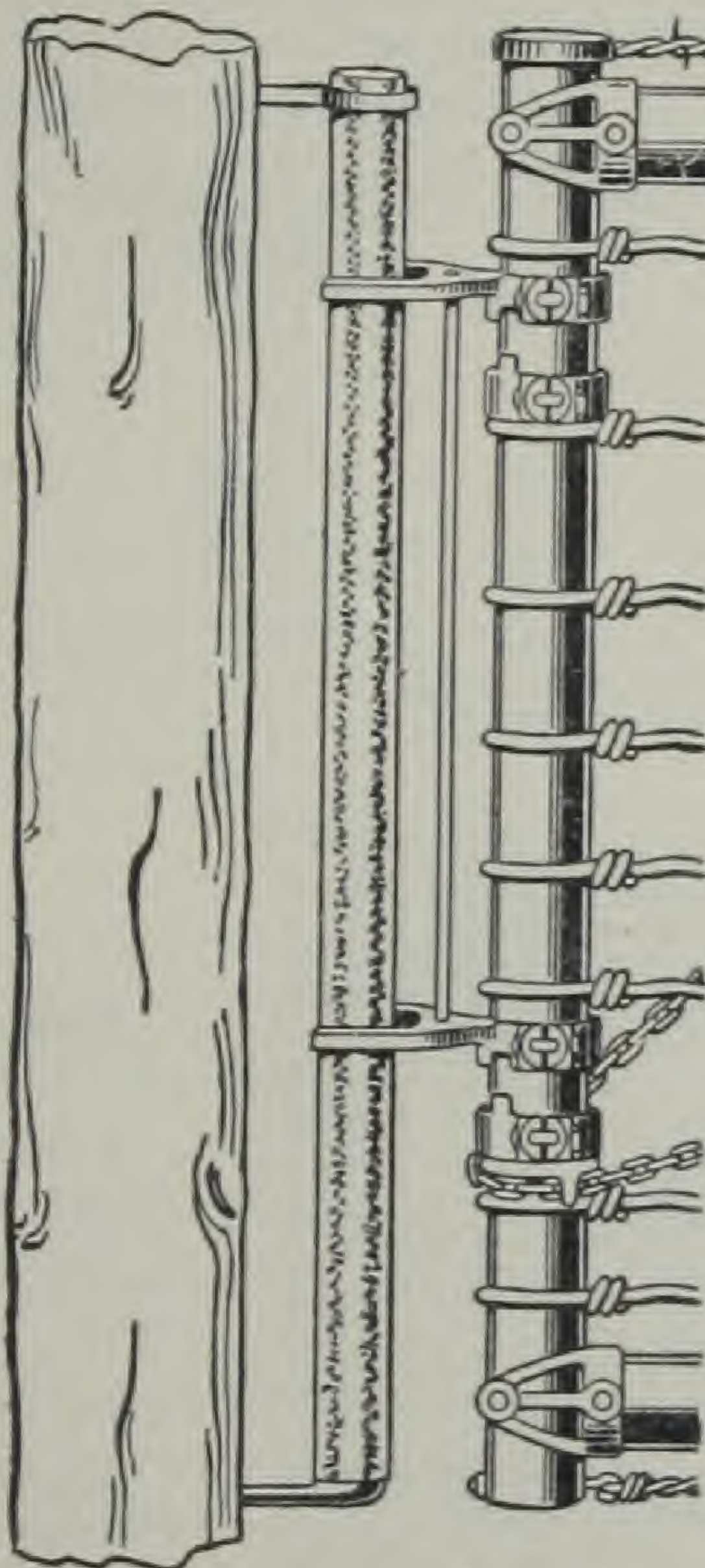
Ornamental Ball Top for Tilting Gates



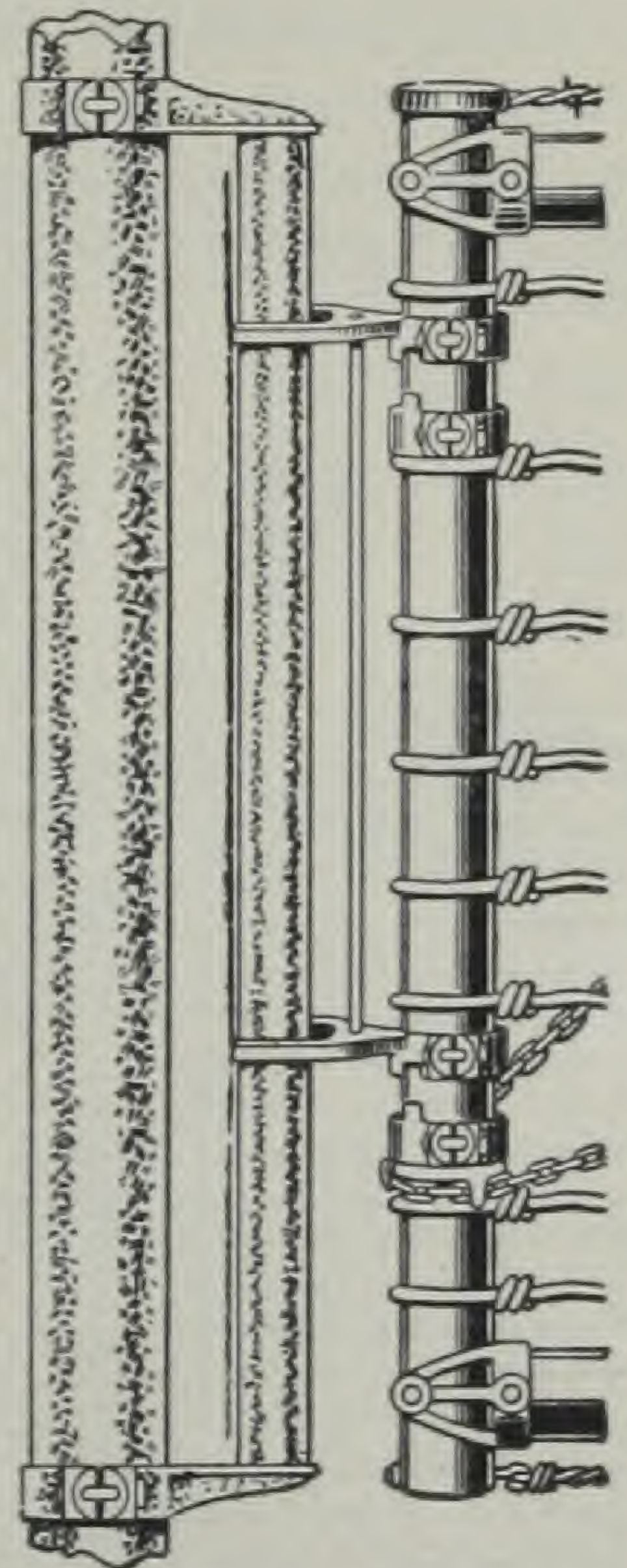
Double Fork Latch to Attach to Steel Post
No. K 901



Double Fork Latch to Attach to Wood Post
No. K 890



Double Fork Latch to Attach to Gate and Lock on Bar Attached to Wooden Post

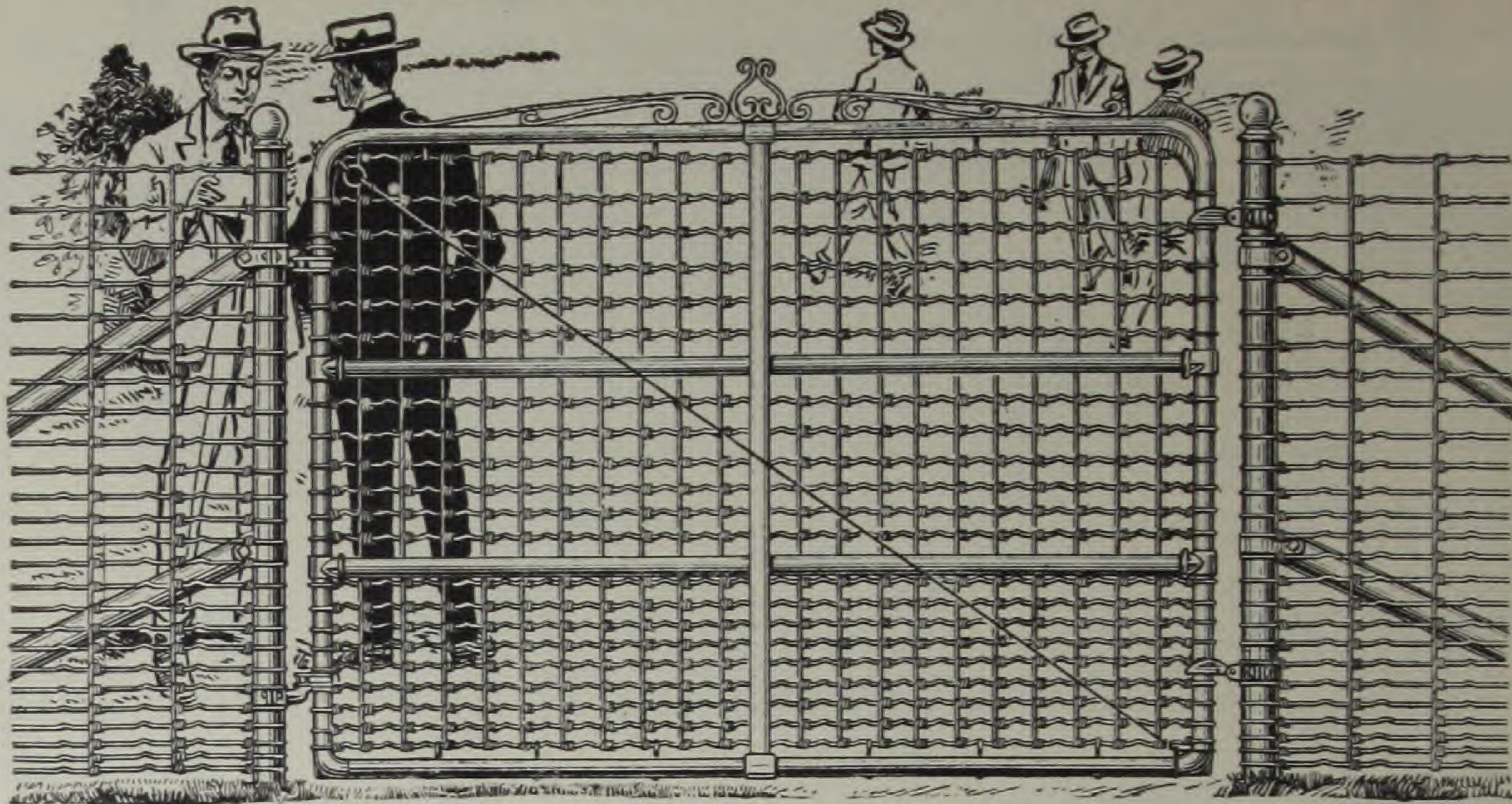


Double Fork Latch to Attach to Gate and Lock on Bar Attached to Steel Post

When The Latches Above, Which Lock On Latch Bar, Are Used Posts Will Have to Be Set 3 Inches Farther Apart on Account of Latch Bar. This is Not Necessary when Using Latches K 890 or K 901.

(Directions for ordering American Gates shown on page 30)

American Park and Paddock Gate



Made with Ornamental Top Only

Especially adapted for use in connection with Park and Paddock Fence around Private Parks, Zoölogical Gardens, and Fair Grounds, where a gate of extra height, strength, and durability is required. See Park and Paddock Fence on page 12.

These gates are made in three widths and six popular heights.

Frames are made of large closed tubing and are braced with strong tubular braces—two horizontal and one vertical. In addition, the diagonal brace rod supports the frame and prevents sagging.

The filler is a heavy, square-mesh fabric, with stays 6 inches apart, all wires being No. 9 gauge and heavily galvanized.

American Park and Paddock Gates come complete with latches and hinges for either wood or steel posts and are made to fit openings as given below.

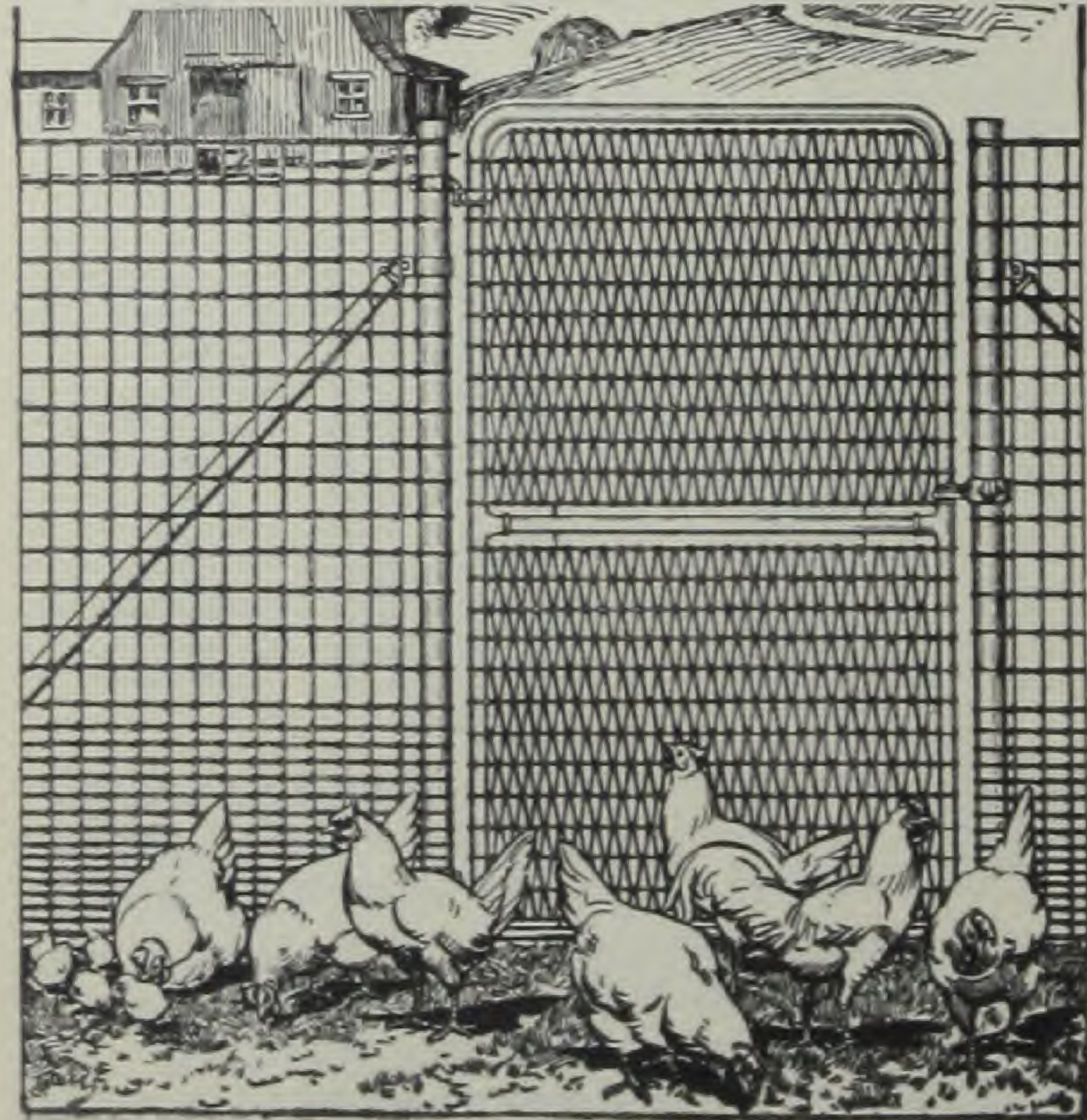
Furnished with Galvanized or Red Painted, Tubular Steel Frame

Filled with a heavily galvanized all No. 9 square mesh fabric. Stay wires 6 inches apart.

Sizes and Weights

(Directions for ordering American Gates shown on page 30)

Width of Opening	Approx. Height of Gate	Approximate Weight, Pounds	Width of Opening	Approx. Height of Gate	Approximate Weight, Pounds	Width of Opening	Approx. Height of Gate	Approximate Weight, Pounds
10 ft.	65 in.	114	12 ft.	65 in.	131	14 ft.	65 in.	147
10 ft.	70 in.	117	12 ft.	70 in.	134	14 ft.	70 in.	151
10 ft.	75 in.	120	12 ft.	75 in.	137	14 ft.	75 in.	154
10 ft.	80 in.	123	12 ft.	80 in.	140	14 ft.	80 in.	158
10 ft.	86 in.	127	12 ft.	86 in.	144	14 ft.	86 in.	162
10 ft.	92 in.	130	12 ft.	92 in.	148	14 ft.	92 in.	165



American Poultry Yard Gate

Furnished with Galvanized or Red Painted, Tubular Steel Frame

Filled with a 2-inch diamond mesh, heavily galvanized fabric, which is non-climbable.

This gate with its close mesh fabric and strong horizontal brace, serves as an ideal barrier to fowl—large and small. Also facilitates entrance to a poultry yard.

It is principally used with 72 and 84-inch fence. Lower gates are shown on page 22.

American Poultry Yard Gates come complete with latches and hinges for either wood or steel posts and are made to fit openings as given below.

Sizes and Weights

Width of Opening	Approximate Height of Gate	Approximate Weight, Pounds
3 ft.	72 in.	32
3 ft.	84 in.	35

Ask Your Dealer for Prices

(Directions for ordering American Gates shown on page 30)

Proper Method of Hanging American Steel Gates on Galvanized Steel Posts

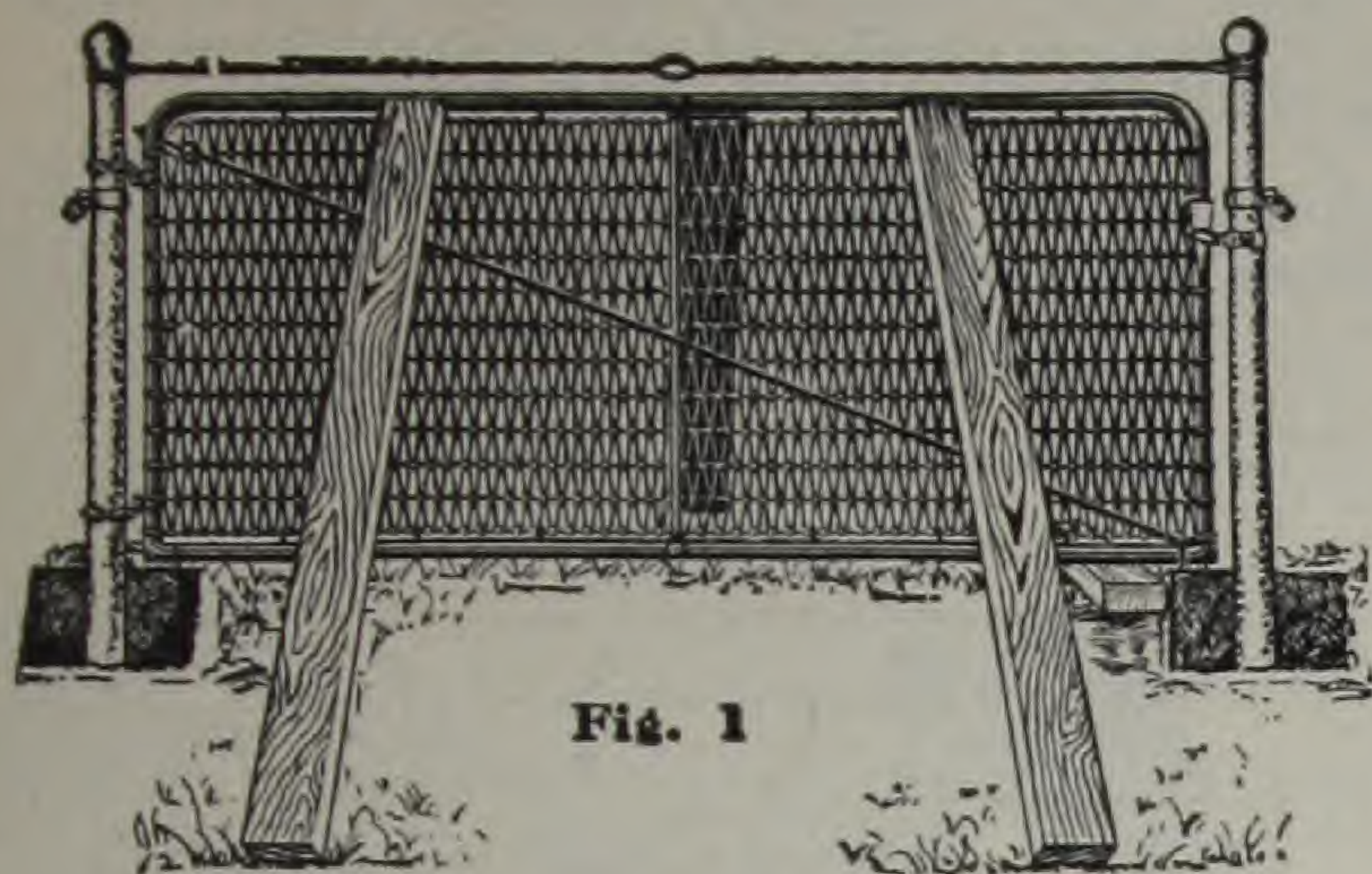


Fig. 1

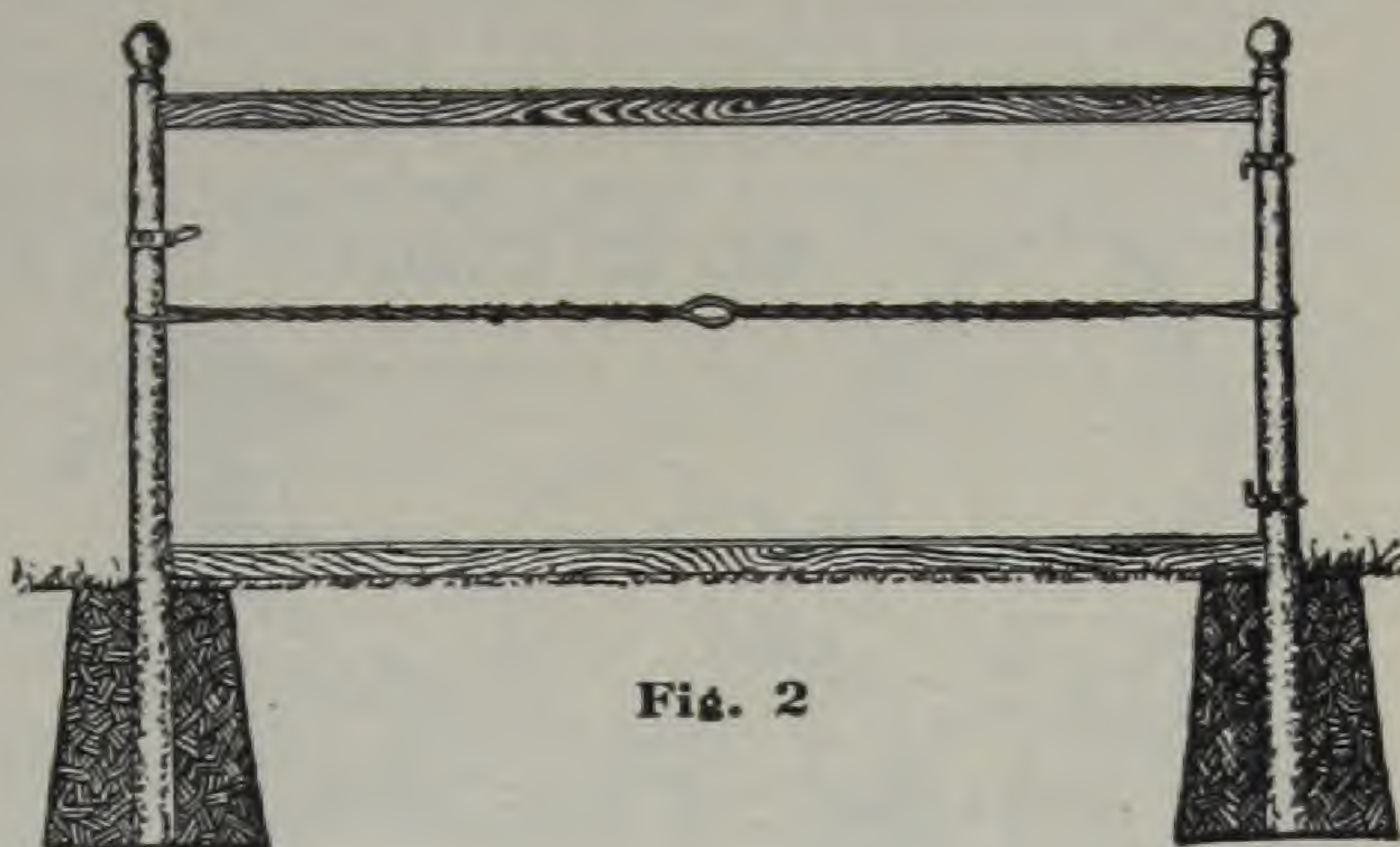


Fig. 2

The importance of good posts and proper setting of them should not be overlooked. Our Galvanized Steel Posts are the most effective and economical to use—time and experience having amply proved their durability and lasting quality. It pays to take time and pains to make sure the posts are properly set and braced so they will not move and that the gate works properly. On preceding pages we show distance to be allowed between posts.

Care must be exercised in getting the posts the proper distance apart and the same distance apart at the top as at the bottom. Hence, we suggest the following as a safe and satisfactory method of setting our Galvanized Steel Posts, between which gates are to be hung.

Ascertain from preceding pages the proper distance between posts for the style of gate to be used. Then dig the holes, the posts to go in the centers of the holes. Attach the hinge collars to one of the end posts and the latch to the other end post. Place the posts in the holes and hang the gate on the hinge hooks. Latch the gate and get the posts and the gate in just the position they should be, to work properly after the concrete is in.

To hold the gate and posts in position, braces can be used as indicated in illustrations above. Put a block under the latch end of the gate to hold it up, as shown in Fig. 1. By stretching a wire between the tops of the posts, they will be prevented from spreading. A small wedge should be inserted in the latch (between the ears) to prevent the gate from getting too far into the latch. The gate frame should strike at about the center of the latch ears.

After the posts and gate are in position just as you want them to remain, fill the post holes with concrete, being careful not to disturb the position of the posts. Then put in the braces and braceblocks and leave alone until the concrete is thoroughly hardened.

The method indicated in Fig. 2 is equally good. In this case, find from catalog or by actual measurement the proper distance between posts. Then cut two sticks of wood just the right length to hold the posts the proper distance apart, placing one piece between the posts and on the ground, and the other piece between the posts near the tops. Midway between the pieces of wood, pass a wire around the posts, and twist it to good tension. The wire will pull the posts toward each other and the sticks of wood will hold the posts the proper distance apart. See that the sides of the posts next to the gate are perpendicular and fill the post holes with concrete. The braces and braceblocks can then be put in.

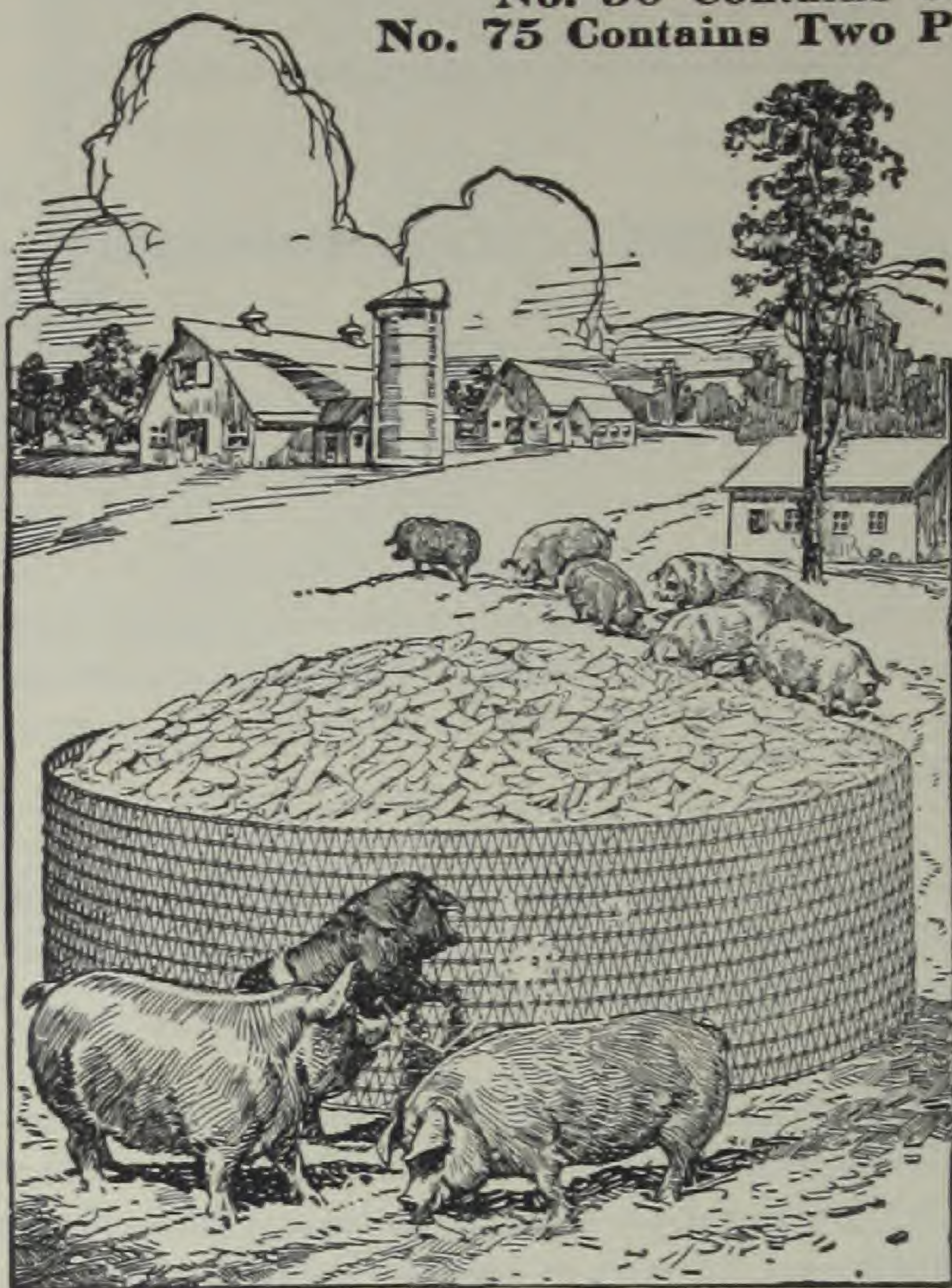
In both methods it is advisable to have the concrete block around the post, larger at the bottom than at the top—especially in light soil. For example, 18 by 20 inches at the top and about 22 by 24 inches at the bottom, by 3 feet deep. This will prevent the concrete block from coming out of the ground, when extreme pressure or tension is brought against the fence line.

Zinc Insulated
Trade Mark

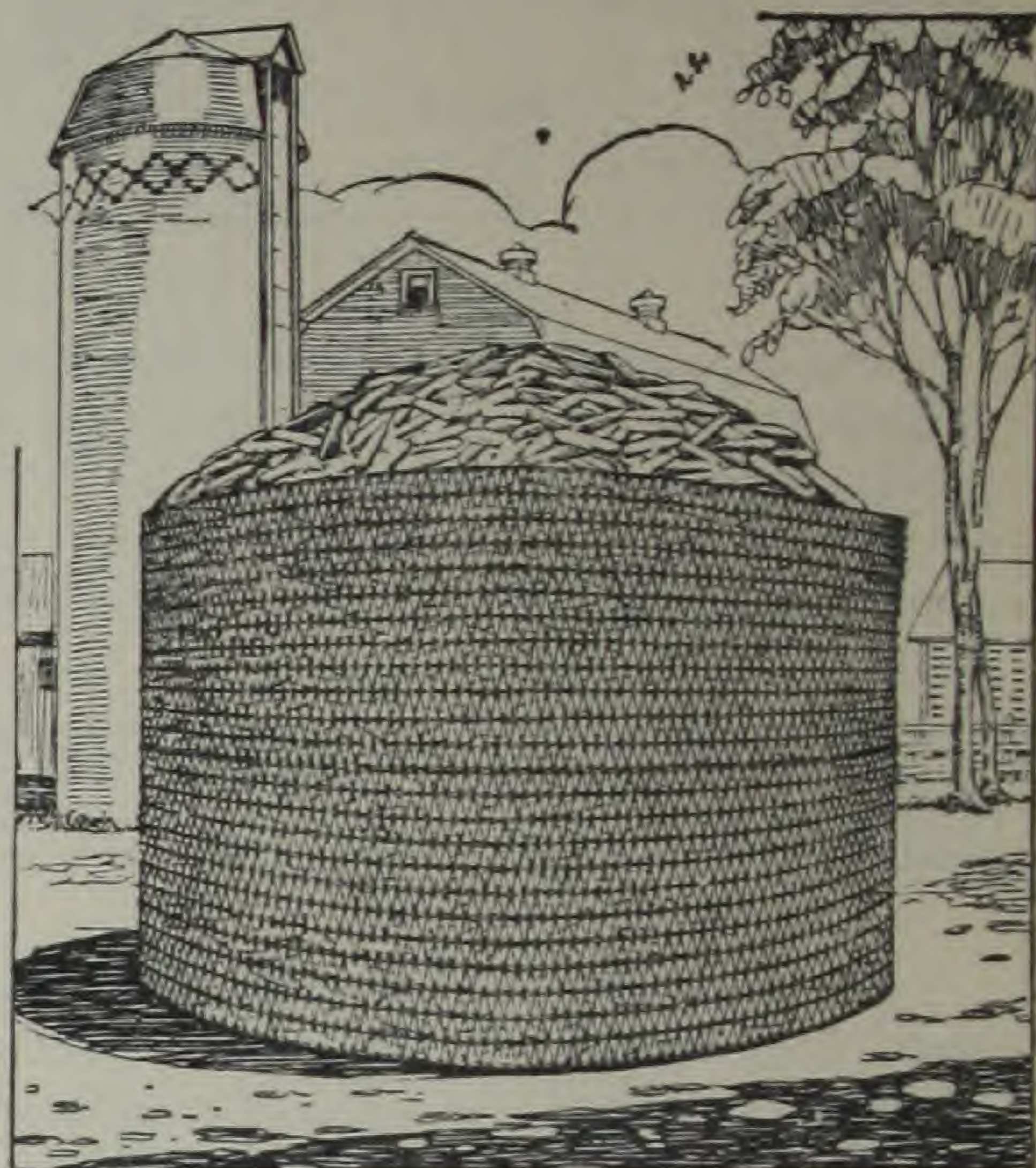
American Steel Corn Cribs

Furnished in Two Sizes

No. 50 Contains One Piece or Section,
No. 75 Contains Two Pieces Put Up in One Roll



No. 50—One Section



No. 75—Two Sections

Made of Zinc Insulated, Diamond Mesh Wire Fabric. Horizontal Cables, 4 inches apart, and made of 2-Strand No. 12½ Zinc Insulated Wire. Cross Wires, 2 inches apart, No. 14 Zinc Insulated Wire

Crib No. 50

Put up and shipped in rolls containing one piece or section. See illustration below. By using two No. 50 Cribs, one above the other, an approximate capacity of 800 bushels is secured. This would also make the height when set up, 8 feet 4 inches.

Crib No. 75

Put up and shipped in rolls each containing two pieces or sections. See illustration below.

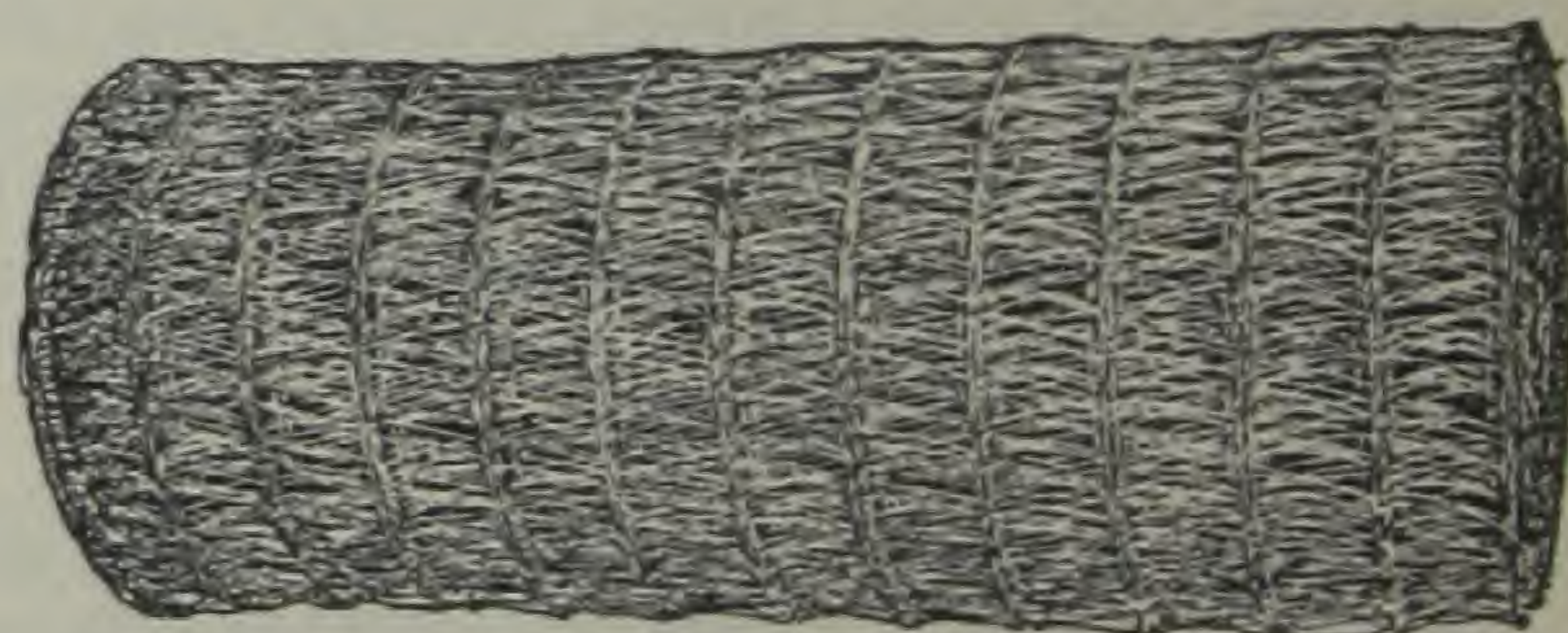
Sizes and Weights

(Directions for ordering Corn Cribs shown on page 30)

Crib No.	No. Pieces or Sections When Shipped	Approx. Height When Set Up Ft. In.	Approx. Diameter When Set Up Ft. In.	Approx. Capacity Ear Corn Bushels	Approx. Weight Per Crib Pounds
50	1	4 2	15 6	400	77
75	2	8 4	11 8	400	117

Several Important Reasons why American Steel Corn Cribs Are Superior to Wooden Cribs

- Easy to build and easy to move.
- Last longer, being made entirely of zinc insulated steel.
- Fireproof and not subject to decay.
- Do not hold moisture.
- Provide for thorough ventilation.
- Do not shelter vermin or rodents.
- Stronger and more durable than wood or any combination of wood and wire.
- Inexpensive—in fact, cost less than wood or other inferior cribbing.
- Two-inch mesh provides close spacing.
- Can be used as a chicken or yard fence when not in use as a crib.



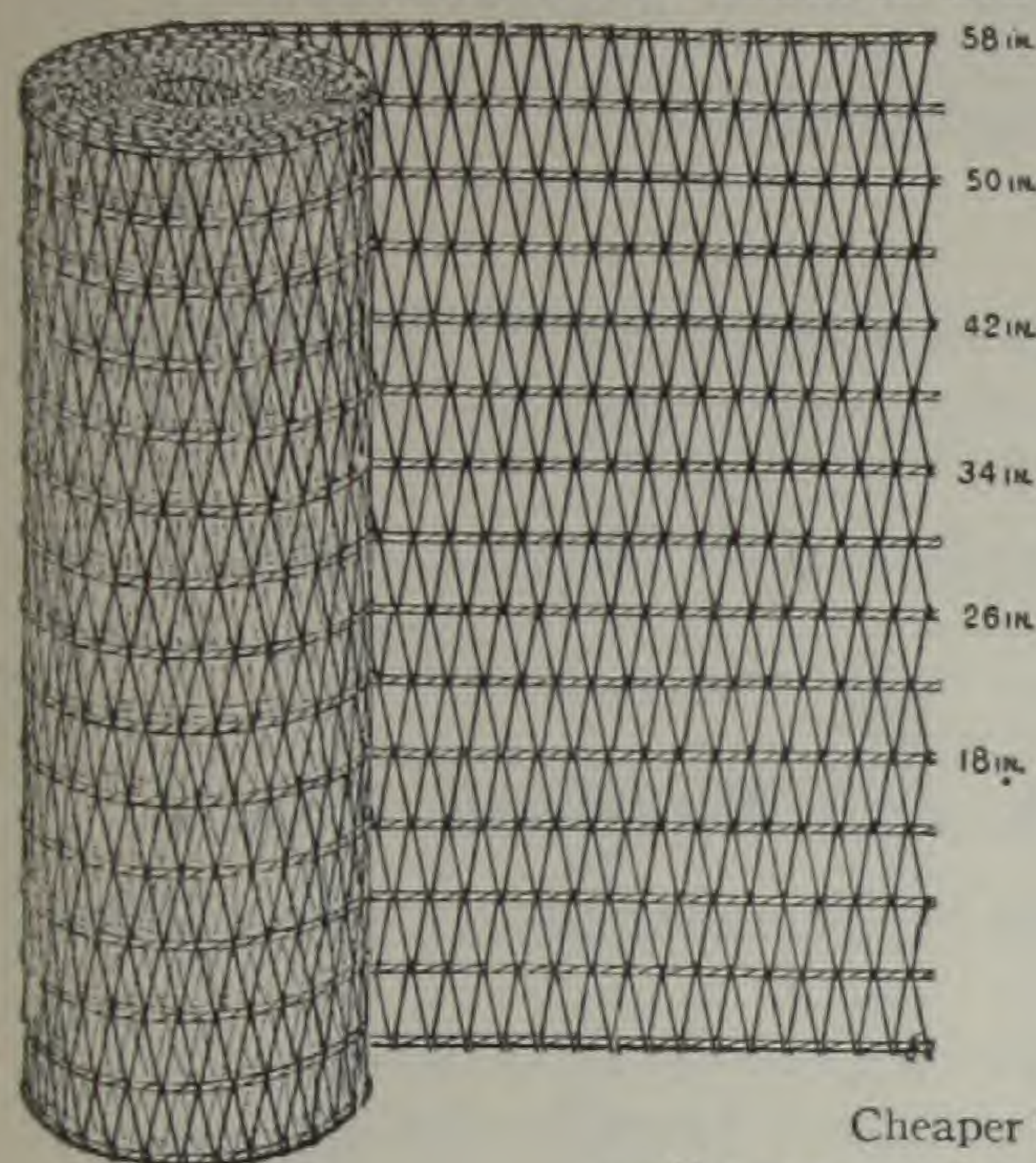
American Steel Corn Crib Ready for Shipment

Ask Your Dealer for Prices

Zinc Insulated
Trade Mark

American Steel Corn Cribbing

Made of Zinc Insulated, Diamond Mesh, Wire Fabric. Horizontal Cables, 4 inches apart, and made of 2-Strand No. 12½ Zinc Insulated Wire. Cross Wires, 2 inches apart, No. 14 Zinc Insulated Wire. Made in Six Heights. Furnished in 10, 20 and 30-Rod Rolls.



Put up in rolls containing 10, 20 or 30 rods each, which can be cut up into different lengths according to the manner in which it is to be used. Especially adapted for *permanent* cribs where it is desirable to cover a wooden frame-work with a wire fabric.

A 30-rod roll of Corn Cribbing can be cut up, without waste, into five cribs of an approximate capacity of 700 or 800 bushels each. Six rods of 50 or 58-inch fabric being required for each crib. It is cheaper than wood and more durable.

Heights and Weights

(Directions for ordering Corn Cribbing shown on page 30.)

Approx. Height in Inches	Size of Mesh in Inches	Approximate Weight Per Rod in Pounds
58	2x4	29.5
50	2x4	25.4
42	2x4	21.4
34	2x4	17.3
26	2x4	13.2
18	2x4	9.2

American Steel Corn Cribbing

Cheaper Than Wood

Better Ventilation

Zinc Insulated
Trade Mark

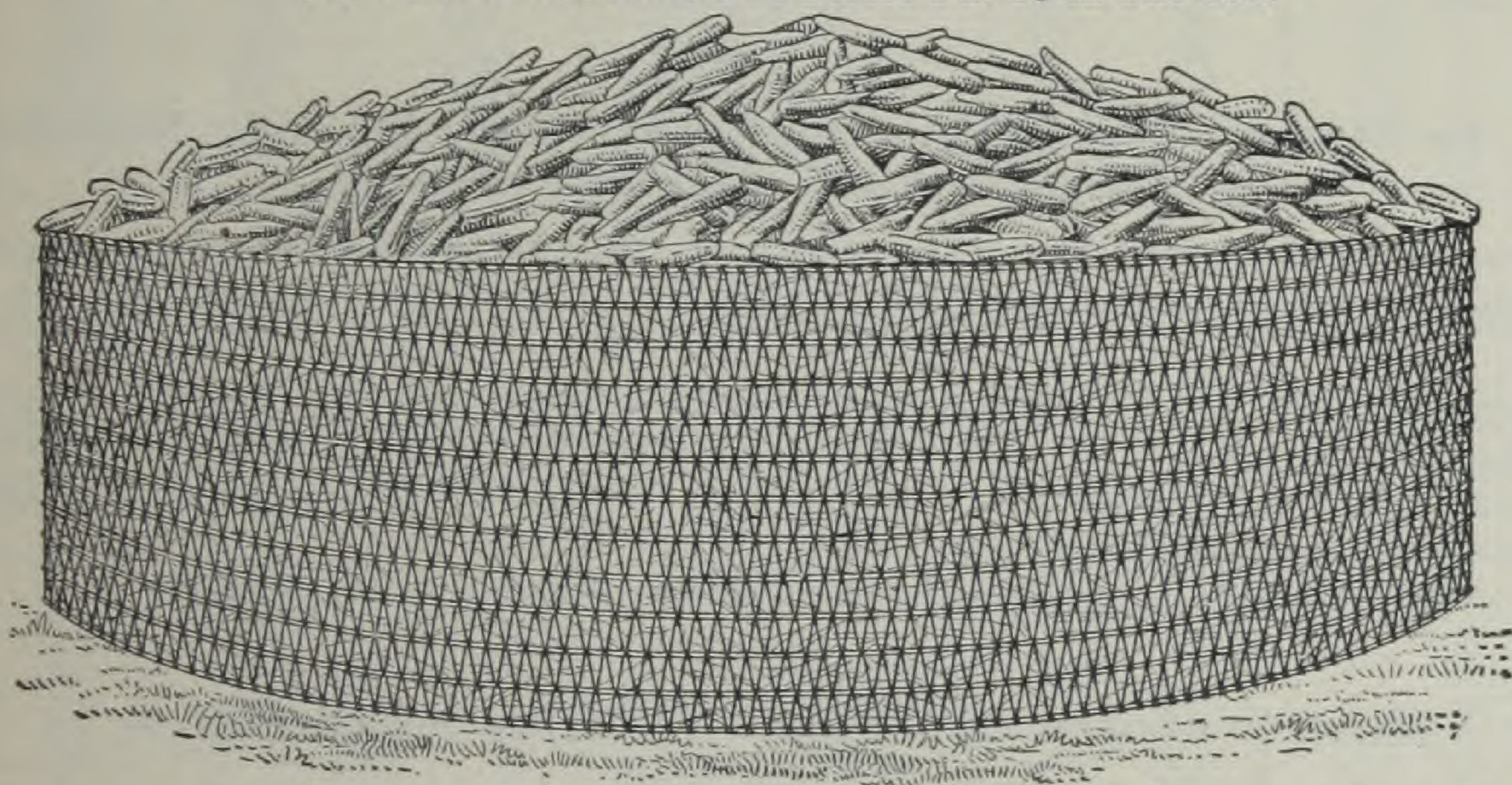
Corn Belt Cribs

Furnished in two sizes. Made of Zinc Insulated Wire Fabric of Diamond Mesh. The horizontal wires are 4 inches apart of single strand No. 12 gauge wire. The mesh wires are No. 16 with 2-inch spacing at the widest part.

Furnished in Two Sizes

No. 50 C. B. Contains One Piece or Section

No. 75 C. B. Contains Two Pieces Put Up in One Roll



Corn represents hard-earned money value; why waste any of it? If you are short of crib space after the crop is harvested, save your surplus corn in a low priced, practical, close-meshed, sanitary Corn Belt Crib. Corn prices are frequently lowest when the crop is harvested. It may be to your interest to store the corn temporarily until higher prices prevail. It is hardly worth while to erect a permanent crib, which, besides being expensive, takes considerable time and trouble to build. The Corn Belt Crib is sold ready to erect and no time is lost in setting it up. Its cost is extremely low, and it is just the thing for the purpose. It can be moved easily, and after serving as a crib it can be used satisfactorily as a poultry, field, or hog fence.

Sizes and Weights

Size Number	Sections	Diameter		Approx. Height from Bottom to Top of Completed Crib		Approximate Capacity Bushels	Approximate Weight Pounds
		Feet	Inches	Feet	Inches		
50 C. B.	1	15	6	4	2	400	61
75 C. B.	2	11	8	8	4	400	91

Ask Your Dealer for Prices

How to Order Zinc Insulated American Fence

Specify Quantity (in number of rods.)

Specify Design Number. The last two figures indicate the height in inches. The preceding figures indicate number of horizontal bars in fence.

Specify Distance between Stay Wires.

Specify the Specifications desired (which indicate the size of the wires).

Specify Size of Rolls desired.

For example:

500 Rods Design 1047-6-inch stay Zinc Insulated American Fence Spec. No. 11-25-20-rod rolls.

500 Rods Design 1047-12-inch stay Zinc Insulated American Fence Spec. No. 9-8-40, 9-20-rod rolls.

200 Rods Design 2158-6-inch stay Zinc Insulated American Fence Spec. No. 14½ P. & R.—5-20, 10-10-rod rolls.

How to Order Lawn Fence and Park and Paddock Fence

In ordering American Lawn Fence, specify Quantity in feet, Height in inches, and Specifications. Note rolls contain 165 feet (10 rods) or 247½ feet (15 rods).

For example: 495 feet 42-inch American Lawn Fence, Specifications D. L. (3-10-rod rolls).

On Zinc Insulated Diamond Lawn Fence, specify Quantity in rods, Height in inches, Specifications, and Size of rolls. Note rolls contain 10 and 20 rods.

For example: 60 Rods 50-inch Zinc Insulated Diamond Lawn Fence; Specifications K—3-20-rod rolls.

On Zinc Insulated Park and Paddock Fence, specify Quantity in rods, Design number, Distance between Stay Wires and Size of rolls.

For example: 100 Rods Design 2488 Zinc Insulated Park and Paddock Fence, 6-inch Stay—10-10-rod rolls.

How to Order Corn Cribs, Corn Cribbing, Banner Standard and Union Lock Poultry Fences

In ordering American Steel Corn Cribs, specify the Quantity and Size of Crib by number.

For example: 10-No. 75 Zinc Insulated American Steel Corn Cribs or 10-No. 75 C. B.—Corn Belt Cribs.

On American Steel Corn Cribbing, specify Quantity in rods, Height in inches, and Size of rolls.

For example: 60 rods 50-inch Zinc Insulated American Steel Corn Cribbing—2-30-rod rolls.

When ordering Union Lock Poultry Fence or Banner Standard Poultry Fence, specify Quantity in rods, Design number, and Size of rolls.

For example: 50 Rods Design 2560 Union Lock Poultry Fence, 5-10-rod rolls.

How to Order American Tubular Steel Gates

In ordering American Tubular Steel Gates, specify:

Quantity.

Width of Opening (in feet).

Height (in inches).

Style of Gate (Walk, Drive, Tilting, etc.).

Whether Galvanized or Painted Frame.

Whether Plain or Ornamental Top.

Whether Standard or Lawn.

Fixtures desired (whether for Wood or Steel Posts).

For example:

3- 3 ft. x 50 in. Walk Gates, Galvanized Frame, Ornamental Top, for Steel Posts.

3- 3 ft. x 48 in. Lawn Walk Gates, Galvanized Frame, for Steel Posts.

3-10 ft. x 50 in. Single Drive Gates, Painted Frame, Plain Top, for Wood Posts.

3-14 ft. x 50 in. Chain Latch Tilting Gates, Painted Frame, for Steel Posts.

The following tables indicate the number of rods of Fence required to enclose fields of different sizes. The dimensions given are exact, so that in buying Fence, sufficient allowance should be made to cover Fence taken up in wrapping around End and Corner Posts.

Amount of Fence Required to Enclose Rectangular Fields of Different Sizes
In Feet In Rods

Acres	Length of Field	Width of Field	Length of Fence Required	<div><div></div><div>Length</div><div>Width</div></div>	Acres	Length of Field	Width of Field	Length of Fence Required
	Feet	Feet	Feet			Rods	Rods	Rods
1	264	165	858	Dimensions given are exact, so that in buying fence, sufficient allowance should be made to cover fence taken up in wrapping around end and corner posts.	1	16	10	52
1	330	132	924		1	20	8	56
1 1/4	330	165	990		1 1/4	20	10	60
2 1/2	660	165	1650		2 1/2	40	10	100
4	528	330	1716		4	32	20	104
5	660	330	1980		5	40	20	120
6	990	264	2508		6	60	16	152
7	1320	231	3102		7	80	14	188
8	1320	264	3168		8	80	16	192
9	1320	297	3234		9	80	18	196
10	825	528	2706	For rectangular or oblong fields with square corners, twice the length of one short side added to twice the length of one long side, with addition for wrapping around posts, will give total approximate length of fence under conditions stated above.	10	50	32	164
15	1320	495	3630		15	80	30	220
20	1650	528	4356		20	100	32	264
25	1320	825	4290		25	80	50	260
30	1320	990	4620		30	80	60	280
40	1650	1056	5412		40	100	64	328
50	1650	1320	5940		50	100	80	360
60	1980	1320	6600		60	120	80	400
70	2640	1155	7590		70	160	70	460
80	2112	1650	7524		80	128	100	456
100	2640	1650	8580		100	160	100	520
120	3168	1650	9636		120	192	100	584
140	4620	1320	11880		140	280	80	720
160	5280	1320	13200		160	320	80	800
320	5610	2112	15444		320	340	128	936
640	5610	4224	19668		640	340	256	1192

Amount of Fence Required to Enclose Square Fields of Different Sizes
In Feet and Inches In Rods, Feet, and Inches

Acres	Length of Side of Square		Length of Fence Required		<div><div></div><div>Side of Square</div></div>	Acres	Length of Side of Square			Length of Fence Required		
	Feet	Inches	Feet	Inches			Rods	Feet	Ins.	Rods	Feet	Ins.
1	208	9	835	..	Dimensions given are exact, so that in buying fence, sufficient allowance should be made to cover fence taken up in wrapping around end and corner posts.	1	12	10	9	50	10	..
2	295	2	1180	8		2	17	14	8	71	9	2
2 1/2	330	..	1320	..		2 1/2	20	..	..	80	..	..
3	361	6	1446	..		3	21	15	..	87	10	6
4	417	5	1669	8		4	25	4	11	101	3	2
5	466	8	1866	8		5	28	4	8	113	2	2
6	511	3	2045	..		6	30	16	3	123	15	6
7	552	2	2208	8		7	33	7	8	133	14	2
8	530	4	2361	4		8	35	12	10	143	1	10
9	628	2	2504	8		9	37	15	8	151	13	2
10	660	..	2640	..	For square fields four times the length of one side, with at least three feet added for wrapping around each corner, end or gate post will give the approximate length of fence required if stretched properly.	10	40	..	..	160	..	..
20	933	5	3733	8		20	56	9	5	226	4	8
25	1043	7	4174	..		25	63	4	1	252	16	4
30	1143	2	4572	8		30	69	4	8	277	2	2
40	1320	..	5280	..		40	80	..	..	320	..	..
50	1475	10	5903	4		50	89	7	4	357	12	10
60	1616	8	6466	8		60	97	16	2	391	15	2
70	1746	2	6984	8		70	105	13	8	423	5	2
75	1807	6	7230	..		75	109	9	..	438	3	..
80	1866	9	7467	..		80	113	2	3	452	9	..
100	2087	1	8348	4		100	126	8	1	505	15	10
120	2286	4	9145	4		120	138	9	4	554	4	4
140	2469	6	9878	..		140	149	11	..	598	11	..
160	2640	..	10560	..		160	160	..	..	640	..	..
320	3733	7	14934	4		320	226	4	7	905	1	10
640	5280	..	21120	..		640	320	..	..	1280	..	..

Fence Building with Steel Fence Posts

Fence building is greatly facilitated if the fence line is properly cleared of brush, stumps, rocks and other obstructions. Any humps should be leveled off so that the bottom of the fence shall rest naturally and snugly on the ground at the lowest points.

Wherever a gate is to be placed in the fence line, two end posts will be necessary. If the gate is placed at a corner, two end posts will answer—one at the corner, and the other at the opposite end of the gate.

Digging Holes

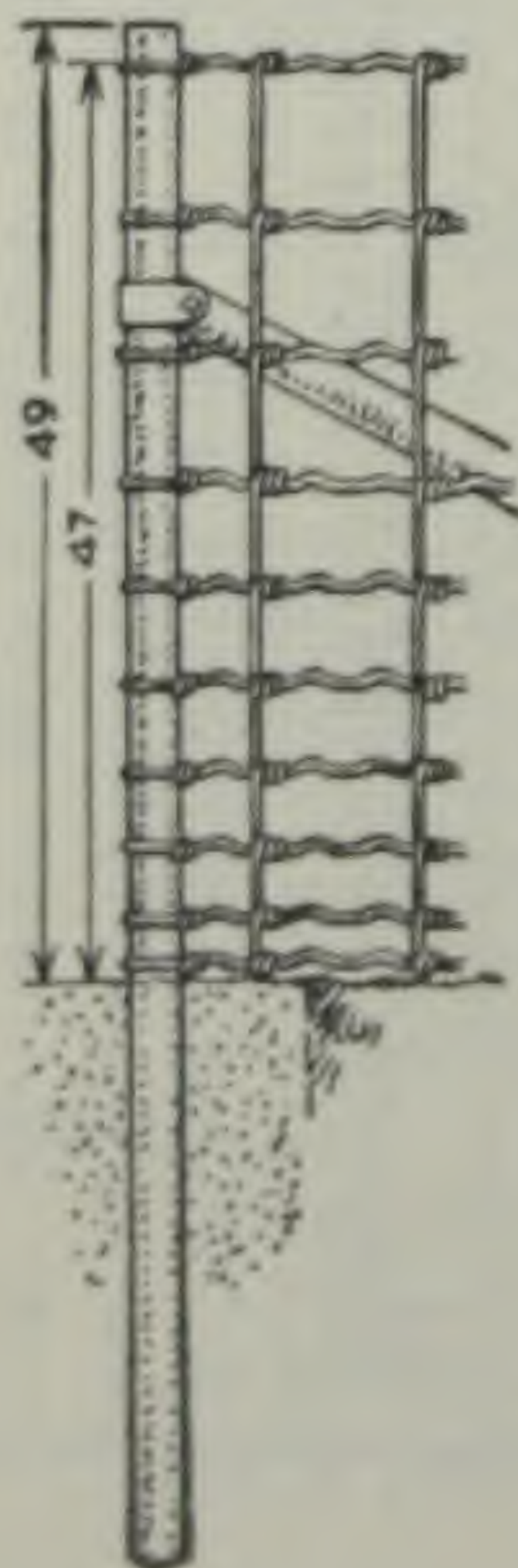
The next step is to dig holes for end, gate or corner posts. Under ordinary conditions, with soil fairly firm and not too wet, the hole for the Steel End post may be 18 or 20 inches square and 3 feet deep, or even deeper if the post is long enough to place deeper and still carry the fence.



Corner Posts, under normal conditions require a hole 20 inches square and not less than 3 feet deep.

End and Corner post holes should be larger at the bottom than at the top to prevent the concrete block from raising out of the ground while fence is being stretched.

Posts should extend above the top wire of the fence about 2 inches. After digging the hole for the End post, make a mark on the post, measuring from the top, indicating how far the post should be set in the ground. For instance, if the fence is to be 47 inches high, place the mark 49 inches from the top of the post. Put the post in the middle of the hole and fill the hole with concrete, level with the surface of the ground, making sure that the mark on the post is level with the surface. A good way to mark the post is to turn it upside down against the roll of fence and make a mark 2 inches above the top wire, then turn the post over and place in hole, the mark being the ground line.



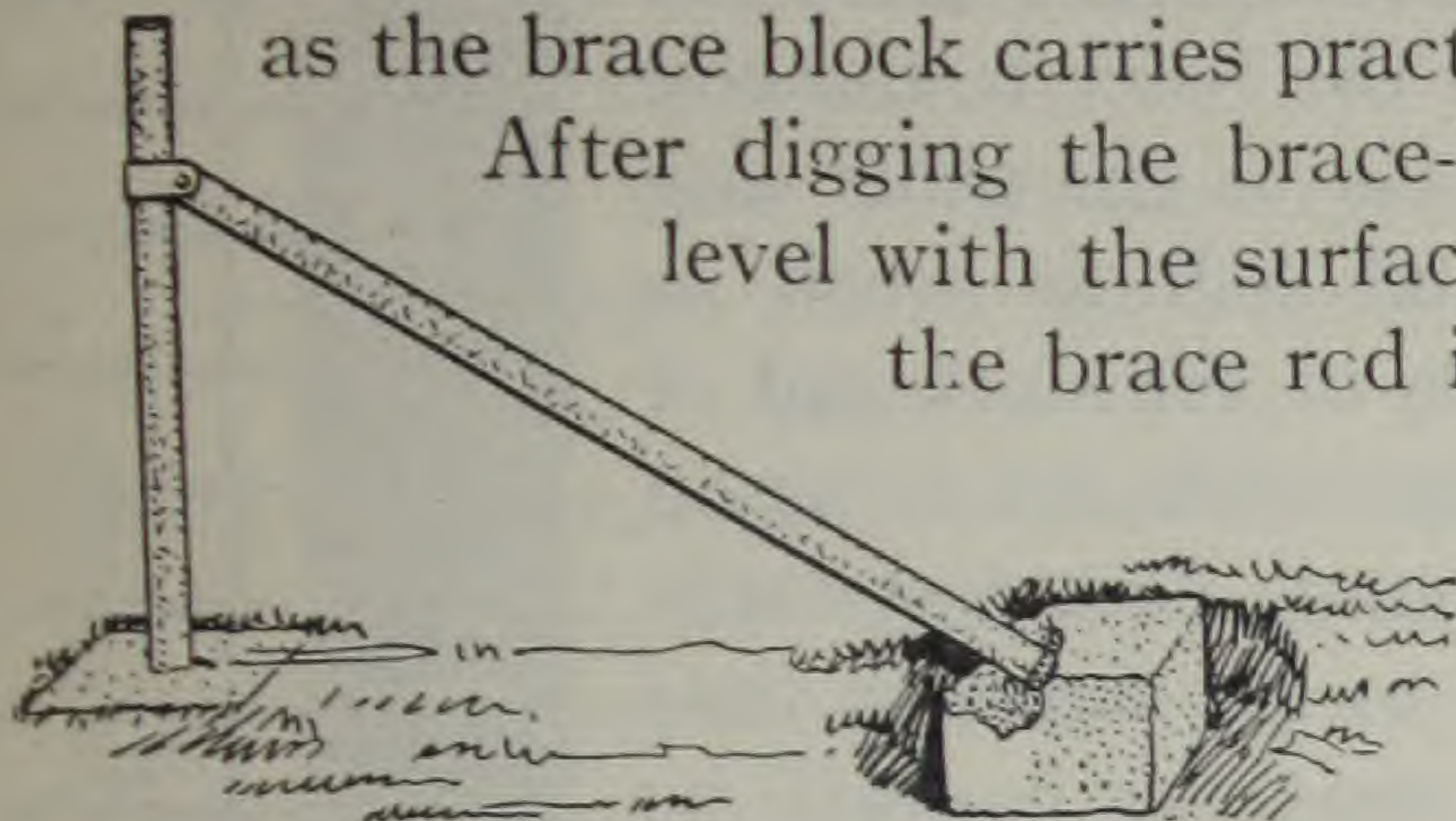
Setting Brace and Digging Brace-Block Hole

Without disturbing the concrete about the end post, slip the brace into collar and tighten nut securely. Let

Fence Building with Steel Fence Posts

the other end of the brace rest on the ground, and make a mark 2 or 3 inches nearer the post than the end of the brace. This mark will be the edge of the brace-block hole next the post.

Dig the brace-block hole 18 or 20 inches square, and from 16 to 18 inches deep if the ground is reasonably firm. If the ground is quite soft and yielding, make the brace block bigger, a little deeper, and increase width and length. The brace block must present a surface to the earth of sufficient size to withstand the heavy pressure of the fence, as the brace block carries practically all the strain.



After digging the brace-block hole, fill it with concrete, level with the surface of the ground, and press down the brace rod in the concrete until it is buried 2 or 3 inches below the surface, then let it alone until thoroughly set.

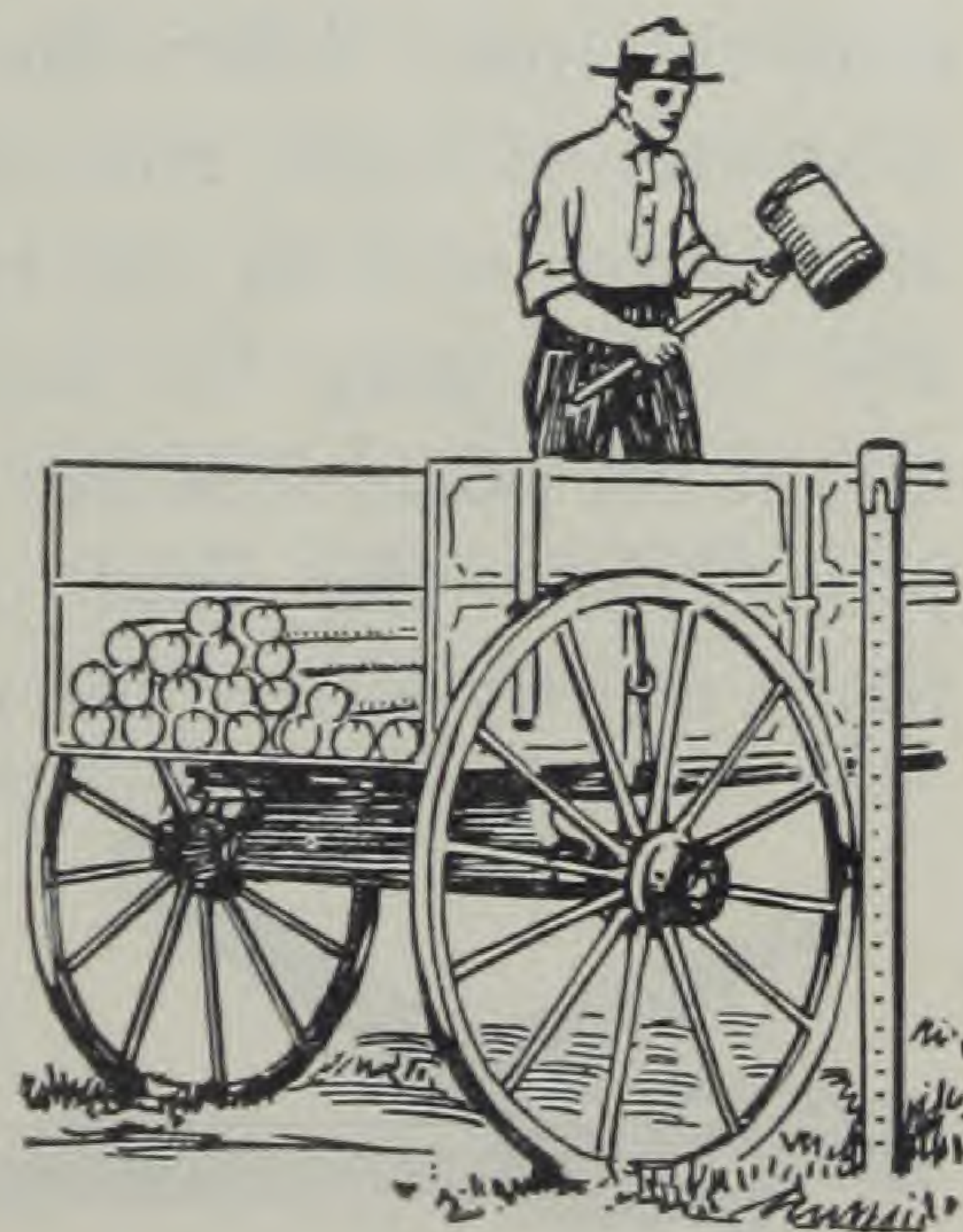
Best results are usually obtained by setting top of brace collar about 14 or 15 inches from top of post, but in no case should the collar be lower than $\frac{1}{3}$ the distance from the top of the post to the ground line. Before stretching, be sure that the nut on the brace collar is turned up very securely. This collar must be tight or it will slip.

Setting Line Posts

It is a good plan to use a string or line in setting line posts, as this will provide a more certain means of getting the fence straight.

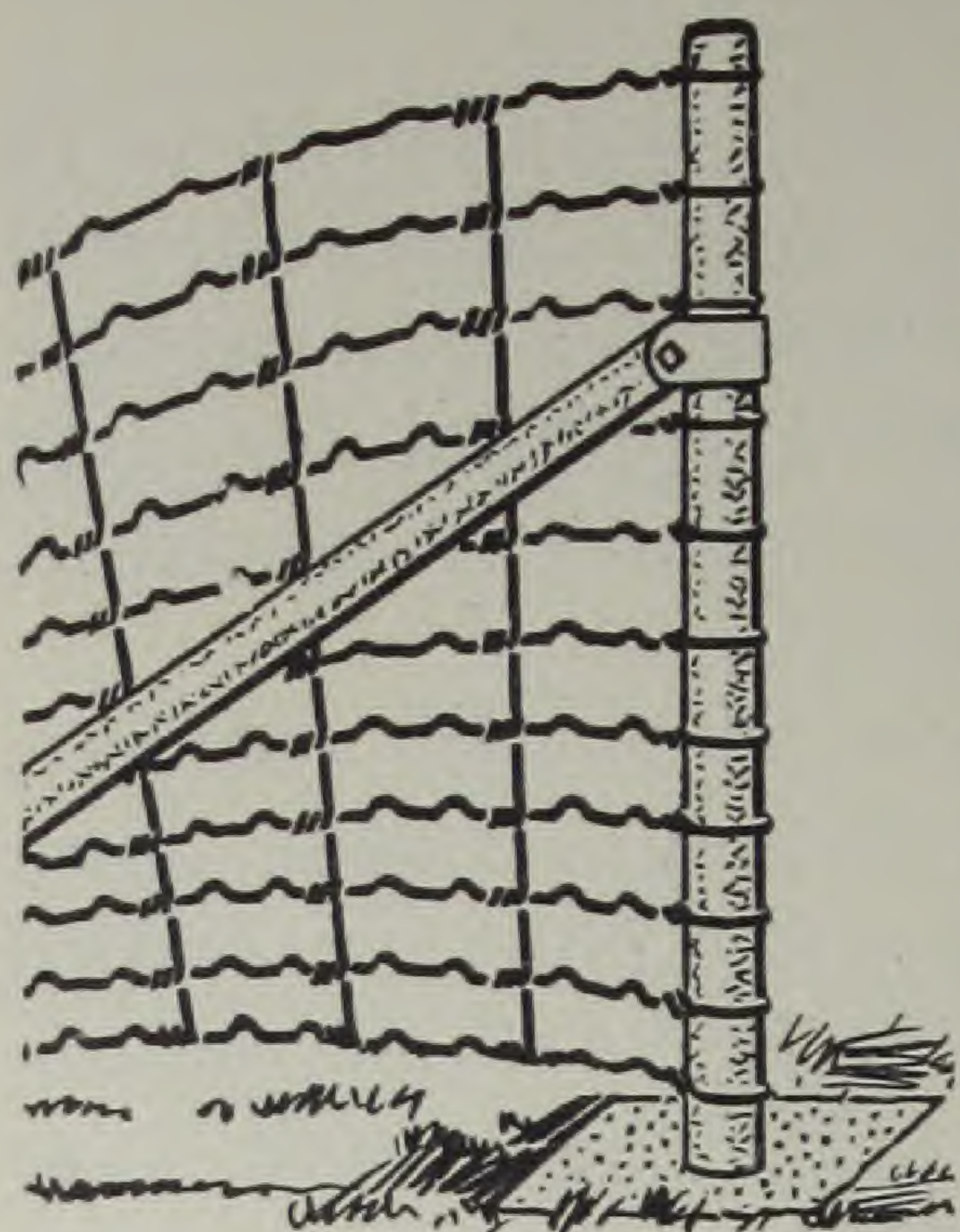
When setting American Tubular Steel line posts in ordinary soil, make a hole with a crowbar 10 to 15 inches deep. Put the post in this hole and the American Driving Cap on top of the post, then with a maul (preferably a wood or wood-faced maul) drive the post down, using light blows, and more of them rather than trying to drive too far with each blow.

When setting Banner Steel line posts, the crowbar and driving cap can be dispensed with. The pointed Banner post and arrow shaped anchor plate will cut into the ground and anchor the post securely.

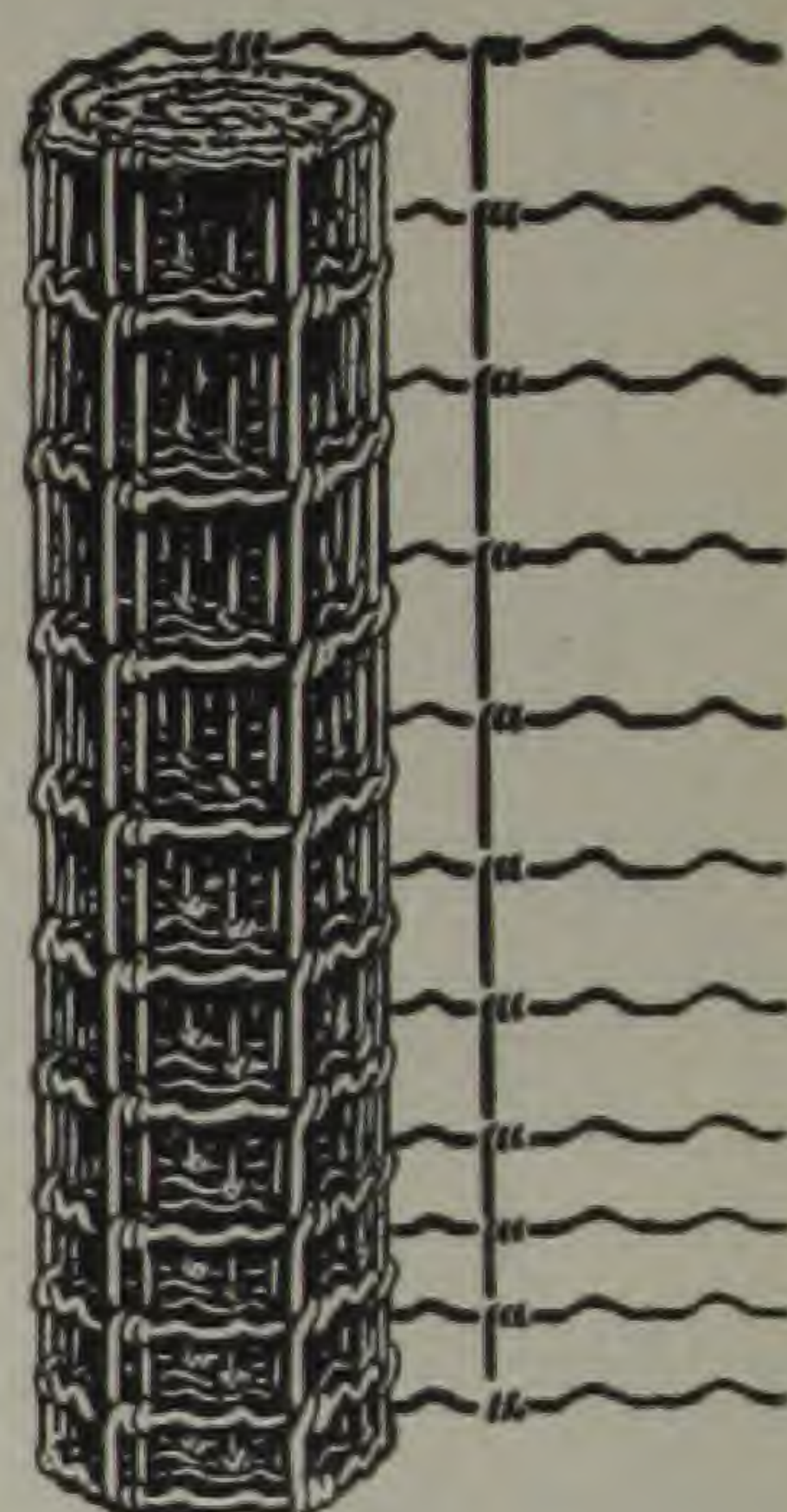


Fence Building with Steel Fence Posts

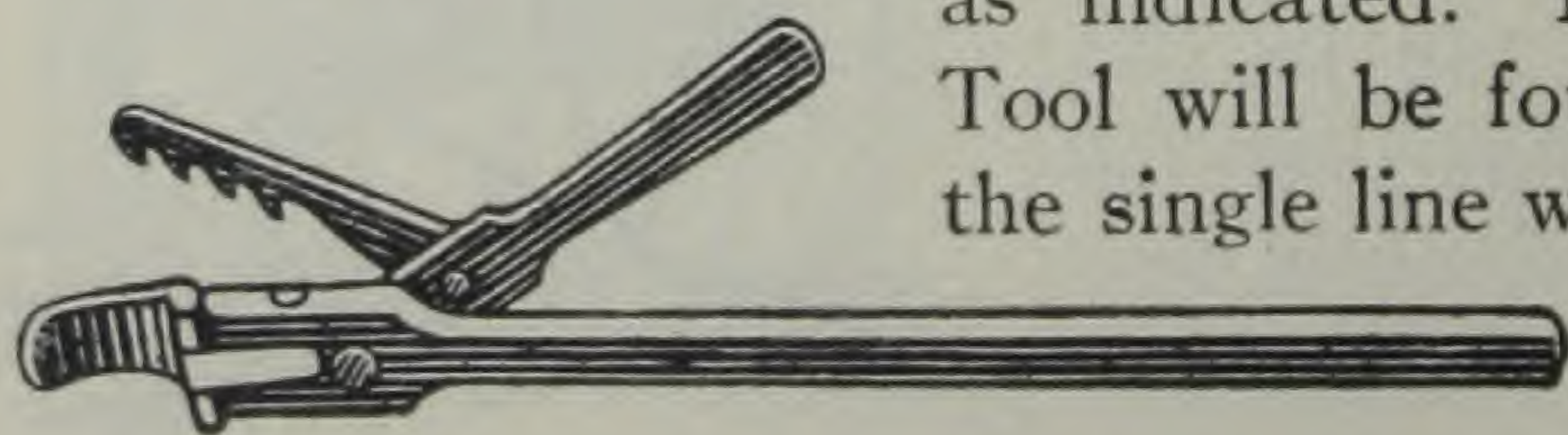
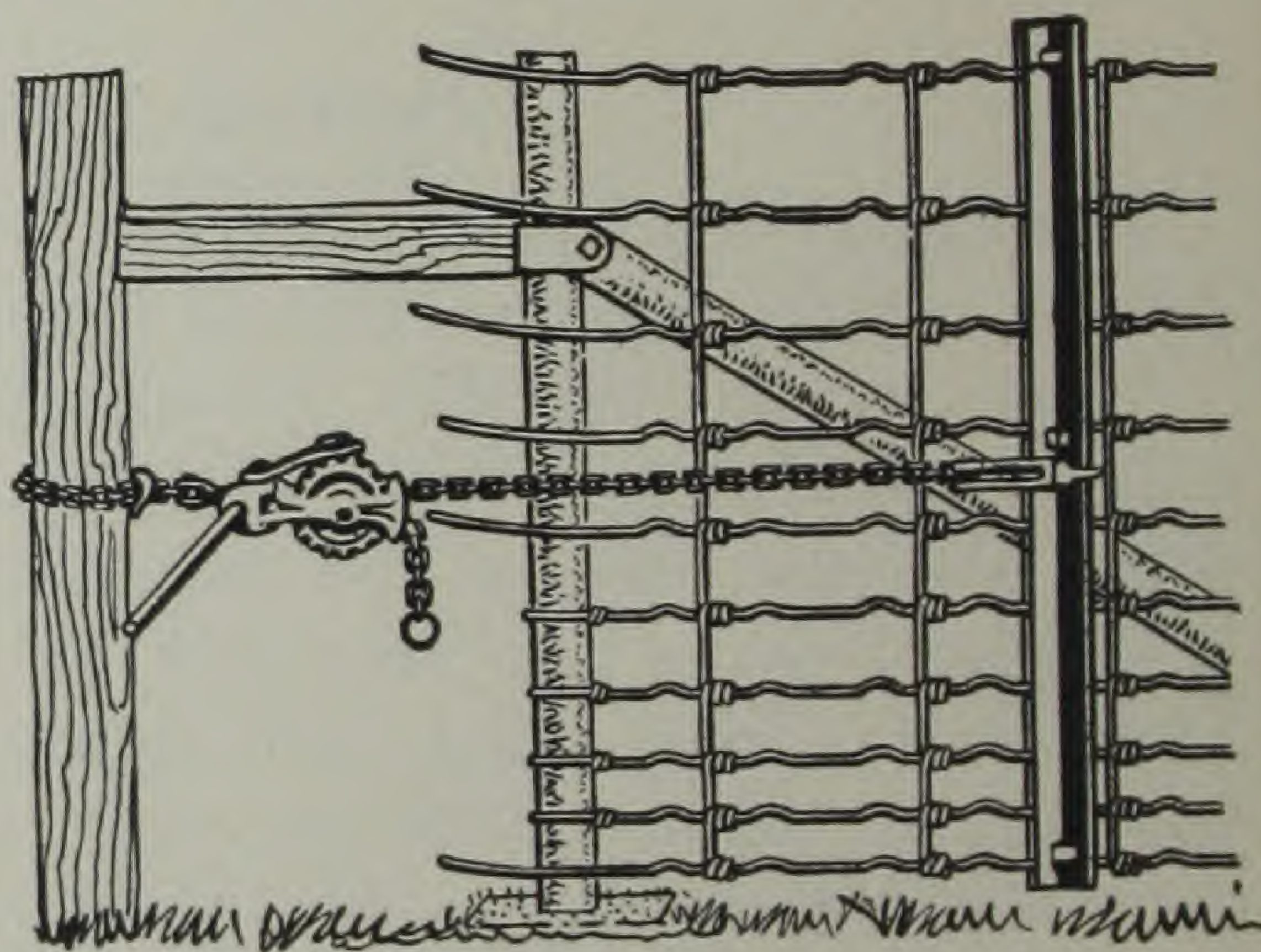
Stretching Fence on Steel Posts



Do not attempt to stretch fence until the concrete about the ends and corners is thoroughly set. First, unroll the fence on the ground with the bottom bar next to the posts. Trim the line or bar wires at the end of the fabric, as shown. Fasten the bars of the fence to the end post. Go to the other end post and pull as much as possible of the slack out of the fence while it is lying on the ground. Attach stretcher bar to the fence so that



when stretching is finished, the stretcher bar will be from 2 to 4 feet from the end post. Put in a wood dummy post 4 or 5 feet back of the steel end post and then insert a good heavy brace, letting one end of the brace rest on the brace collar of the steel post. Attach the stretcher chain to this dummy post, working the stretcher head between the dummy post and the steel post. While stretching, lift the fence off the ground occasionally between the end posts so as to relieve the friction and let the fence distribute itself over the line. When the fence is stretched tight, trim out the stay wires so that the ends of the fence may be wrapped about the posts to make a neat job. Draw the bars of the fence tightly about the end post, splicing the ends about the bar itself, as indicated. The Perfection American End Tool will be found very helpful in stretching the single line wires between stretcher and end post. It not only stretches the line wire, but holds it in proper position while end of wire is being fastened.



proper position while end of wire is being fastened.

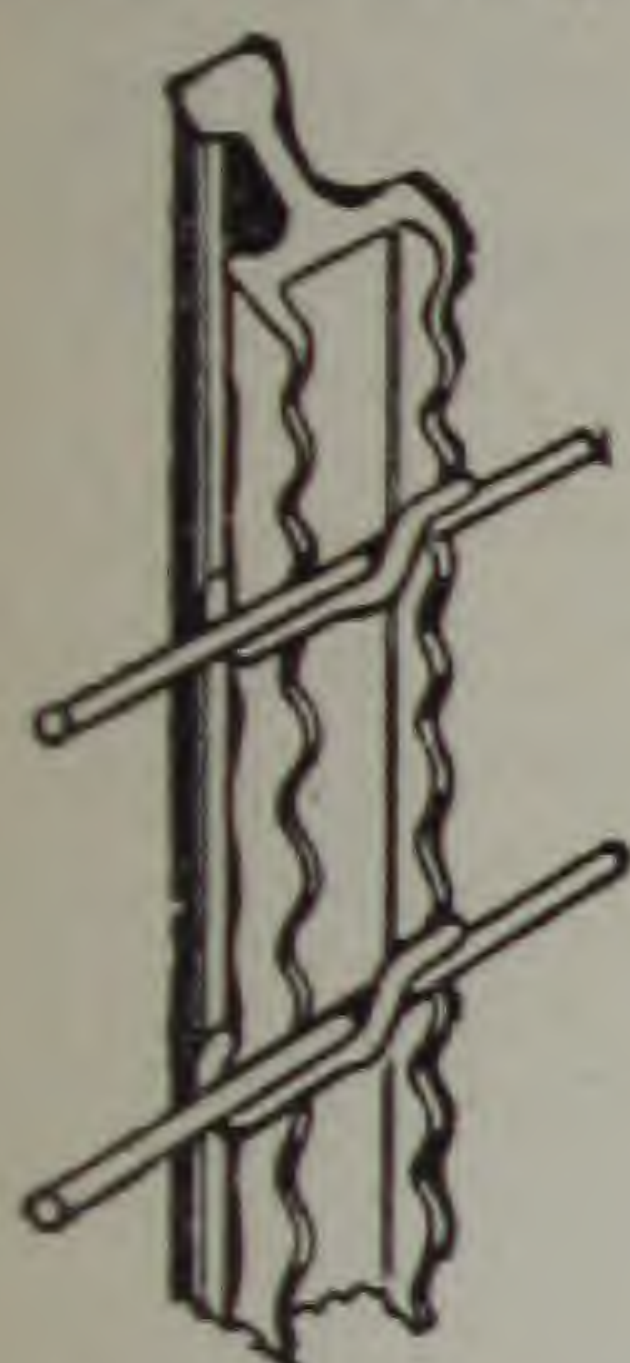
Fence Building with Steel Fence Posts

Fastening Fence to Line Posts

The American Galvanized Tubular Steel line post is furnished with tongues every few inches which can be bent over the line wires of the fence. Hook the top bar or line wire of the fence over the top tongue and bend the tongue down enough to hold wire in place. Then fasten as many of the bar wires as convenient. Do not turn the tongues backward, unless necessary, as it is much harder on the metal.



Banner Steel Line Posts are provided with special Hump clamps (seven furnished free with each



post). The line or bar wires of the fence will fit into the notches on both sides of the face of the post and the clamps will hold them securely in position and away from face of post, thus preventing accumulation of dirt and moisture. Any or every line wire can be attached and one blow with a hammer will fasten the clamp into position.

When the fence has been completely fastened, remove the stretcher and the job is finished.

Every fence must depend largely on its foundations. The foundations of any wire fence are its end posts. They must be solid and immovable. Then thoroughly stretch the wire fabric and fasten it properly to the end posts, and satisfactory service will follow.

Hanging Gates on Steel Posts

The best method to use in hanging steel gates on steel posts is to have the gate on the ground and after the holes are dug for the end posts, put the hinges on one post and the latch on the other, hang the gate between the two posts, brace the post and gate so that they will stand in the position they are expected to take after the fence is up. When the gate has been hung and braced so it will stand, fill the end-post holes with concrete and allow the gate to remain on the posts. This insures the correct hanging, whereas, if the gate is not hung, the posts might move a little, and after the concrete sets, it is difficult to rectify such an error. This method of hanging gates is more fully described in the gate section of this catalogue.

Fence Building With Wood Posts

End Post with Anchors



The first act in fence building is the setting of the end posts 4 to 4½ feet deep in a hole which has one side flat where the post will come flush with the flat side and lean against the solid earth. End posts have two anchors, spiked securely to each post, with 6-inch spikes, the top anchor placed so it will bear against the ground in the direction of fence pull, the bottom anchor (size, about 2 inches thick, 6 inches wide and 24 inches long) on the opposite side. Once set, the earth filling of the hole should be thoroughly tamped, to secure the greatest possible solidity.



Corner Post Anchors

A corner post, being subject to a tremendous pull from two directions, is supplied with three anchors. It is set in the hole 4 to 4½ feet deep, as is the end post, the top anchor and bottom anchor taking the fence pull in one direction while the third anchor, placed just under the top cross-piece but at right angles on the post, acts as a stiffener against the pulling power from the direction in which it is spiked.



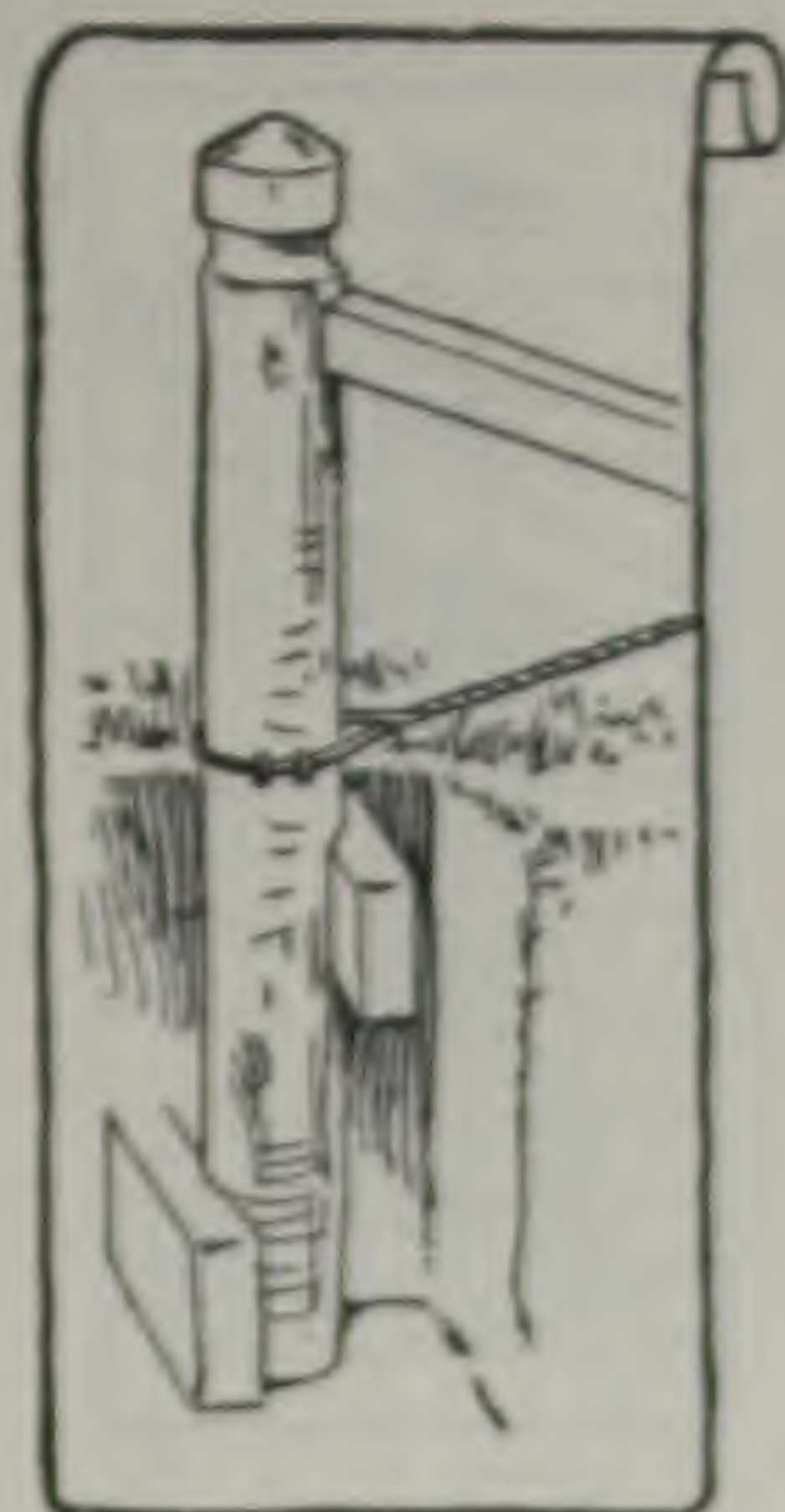
Post Anchors for Hollow Places

A bottom anchor on a line post is necessary where there is a hollow or depression in the ground along the fence line. This anchor is placed at the very lowest point on the post so that the fence shall not pull the post out of the ground.

Fence Building with Wood Posts

Wood and Wire Braces, End Post

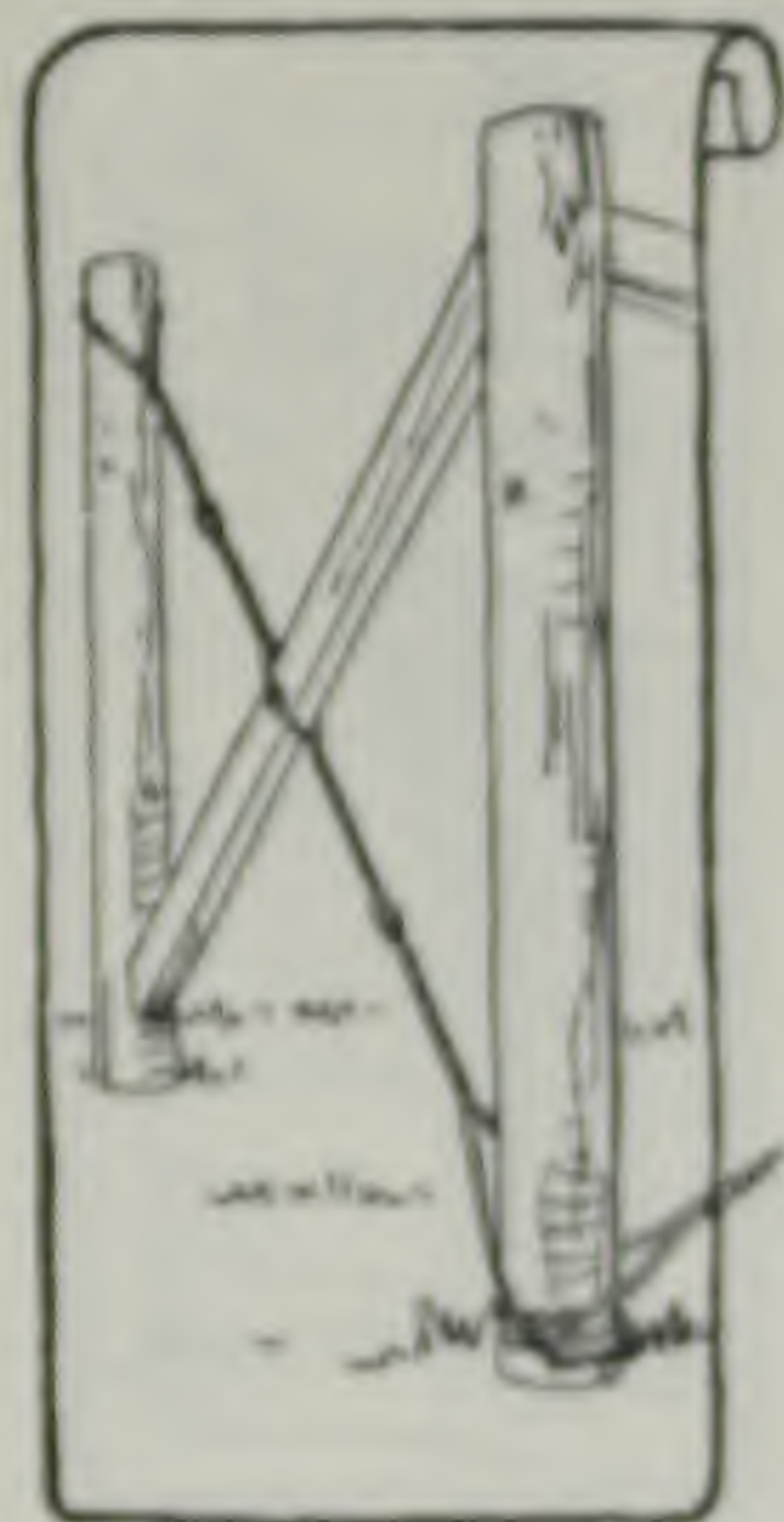
End and second posts with necessary braces and anchors constitute the foundation of the fence. This is the end post with anchors at top and bottom, and also with the wood brace and wire brace to the second post, shown in their proper positions. The top anchor bears against the ground in the direction the fence is to be pulled, the bottom anchor on the opposite side of the post providing resistant leverage. The counter, or wire brace, No. 8 or larger soft galvanized wire, is wound and stapled at the bottom of the end post close to the ground.



Braces and Corner Post

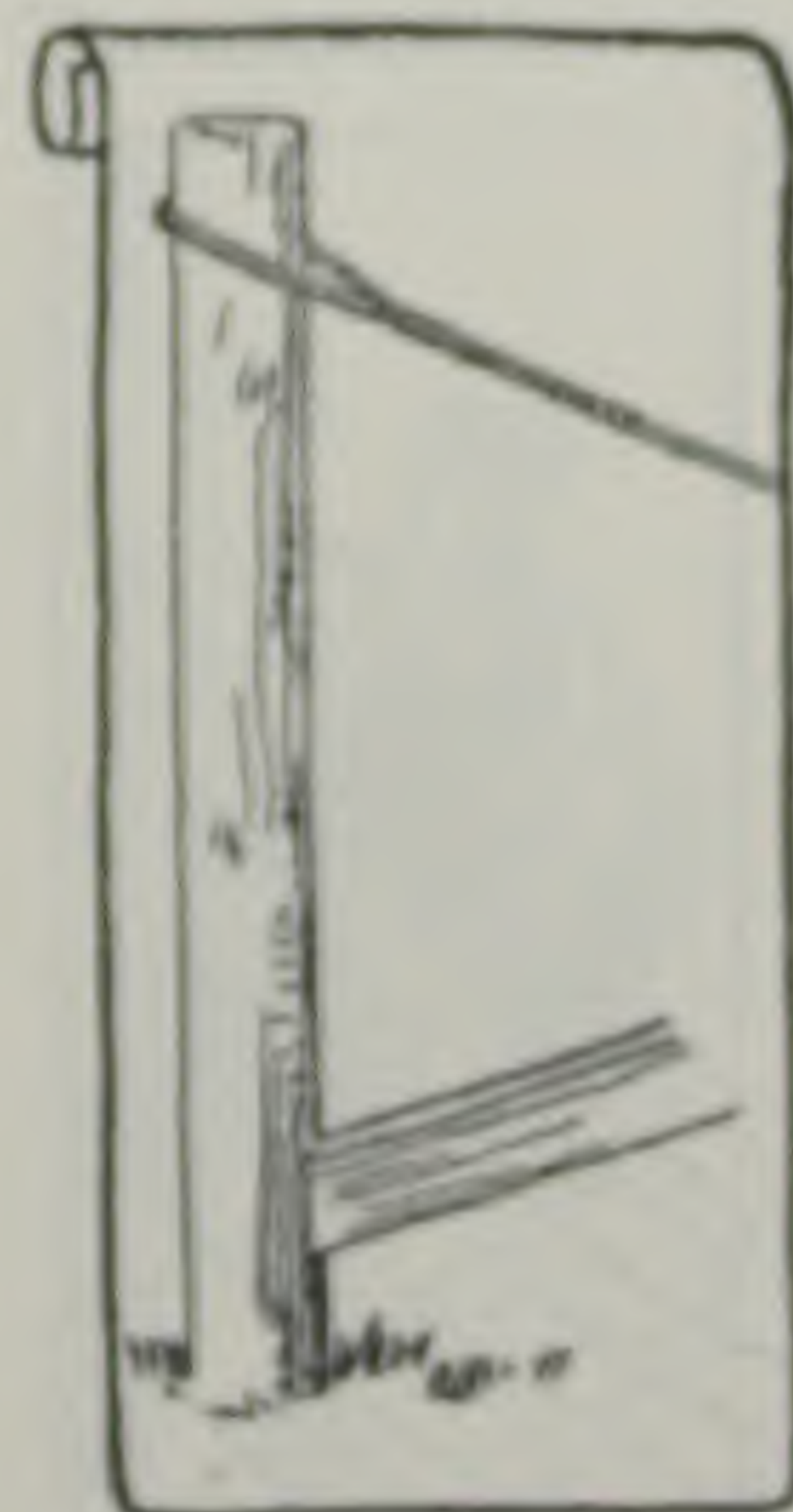
Here we have the wood brace and the wire brace in complete installation on a corner post and the second posts.

The wire brace is stapled around the bottom of the end post and around the second post 6 inches from the top, using an A. S. & W. stretcher to draw the wire brace tightly. Then with a clawhammer or other tool inserted between the wires midway between the posts and wood brace intersection, twist the wire brace until it becomes a hard and taut cable. This act is done both above and below the wood brace.



Wood and Wire Braces, Second Post

The second, or brace post, also anchored to secure a better job, is set 11 feet from the end post, so that a wood brace 4x4x12 can be placed diagonally, this brace being set flat against the post about 10 inches from the ground at the second post and the same distance from the top of the end post. The wire brace is attached or wound around the second post about 6 inches from its top.



Fence Building with Wood Posts



Fastening Fence to End Post

As line posts do little work other than sustaining a part of the weight and holding the fence in position, they are spaced about 1 rod apart, being set 3 feet deep at least. Unroll enough fence to fasten around corner or end post, as desired, standing fence up against the post, large meshes on top and leaving enough to go clear around the post.



Fastening Fence to End Post—Cont'd

After getting the fence into position at the end or corner post, fasten each line wire around the post, wrapping the line around its own member. Then each line wire should be thoroughly stapled to the end post, staples being driven down firmly, contrary to the method for stapling line posts where staples are driven in lightly to permit line wires to work back and forth more or less freely.



Splicing the Fence

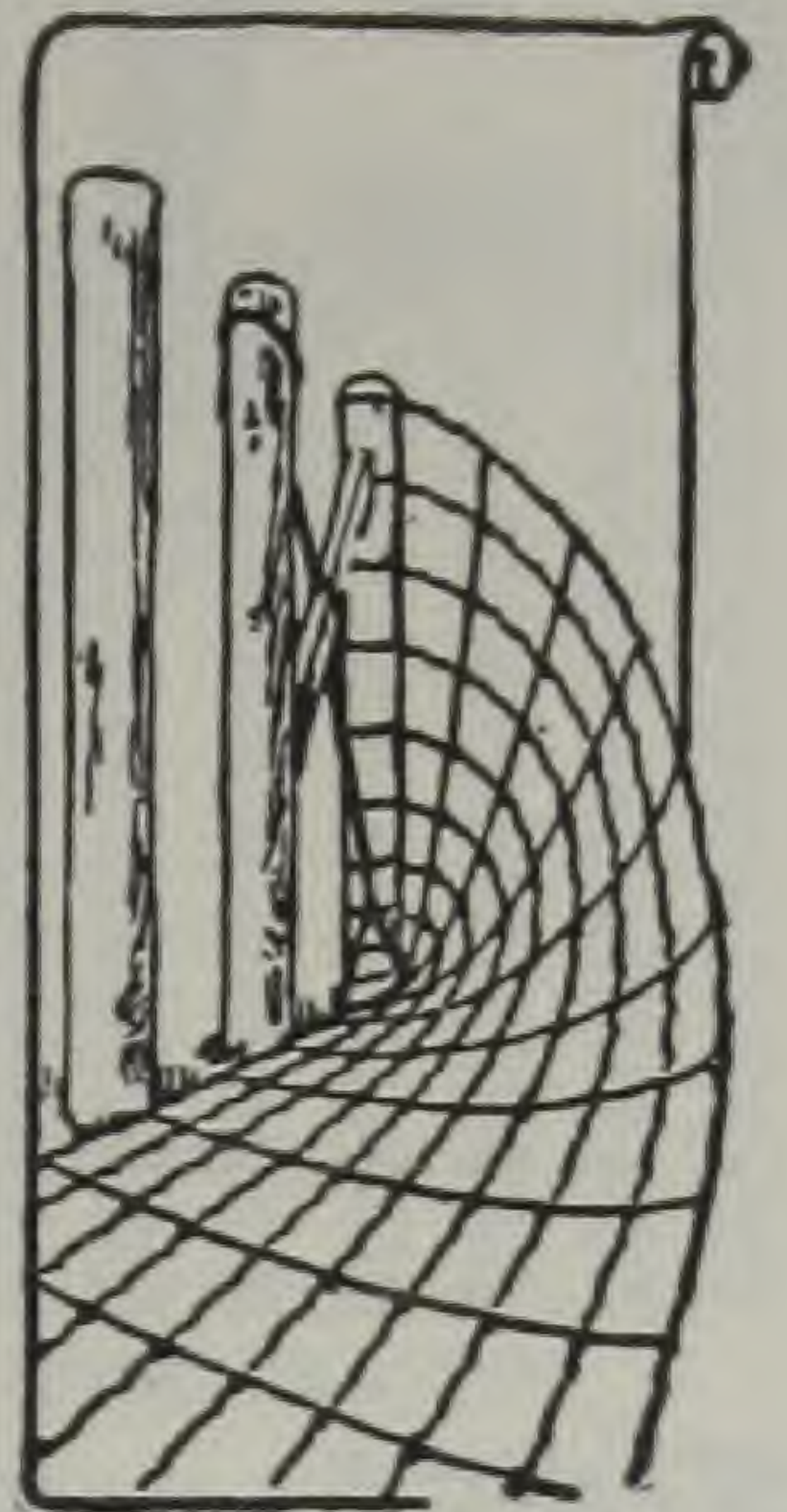
The fence roll having been laid down to its end and when another roll is to be spliced, leave approximately 6 inches of wire from each stay at the end and splice it by wrapping the end of one wire around the corresponding wire of the second roll of fence, using the American Splicer.

In splicing one roll of fence to another, the wires having been wrapped around each corresponding wire, the splices will have the neat and strong appearance as shown in the illustration.

Fence Building with Wood Posts

Unrolling the Fence

When the line wires have been wrapped and stapled around the end post, continue then to unroll the fence flat upon the ground along the line of posts as shown here.



Stretching the Fence

Stretch the fence by hand as much as possible while it lies on the ground. The stretcher clamp bar then is attached. If using a Lott Stretcher for instance, the large hook is placed on the wooden clamp, open side of the hook facing the posts and in the center of the fence with equal number of line wires above and below. The stretcher is worked back and forth until the fence is thoroughly tight.

Stretchers

If using a Lott, a long lever especially is desirable, because with it one man may accomplish as much as several men with a short lever. Note the lever length. However, special levers are not needed when using our improved double or single jack stretchers, illustrated on page 15.



Single Wire Stretcher

The fence between the stretcher clamp bar and the end post is taken up with the hand A. S. & W. stretcher, each wire being taken up by itself.

The operator holds the stretcher with his body while driving the staples on the end post tightly.

Fastening Line Wires

Following the driving of staples in end post after each single wire has been drawn tightly, each individual wire is brought around the post, fastening and twisting the wire to the corresponding member of the fence.



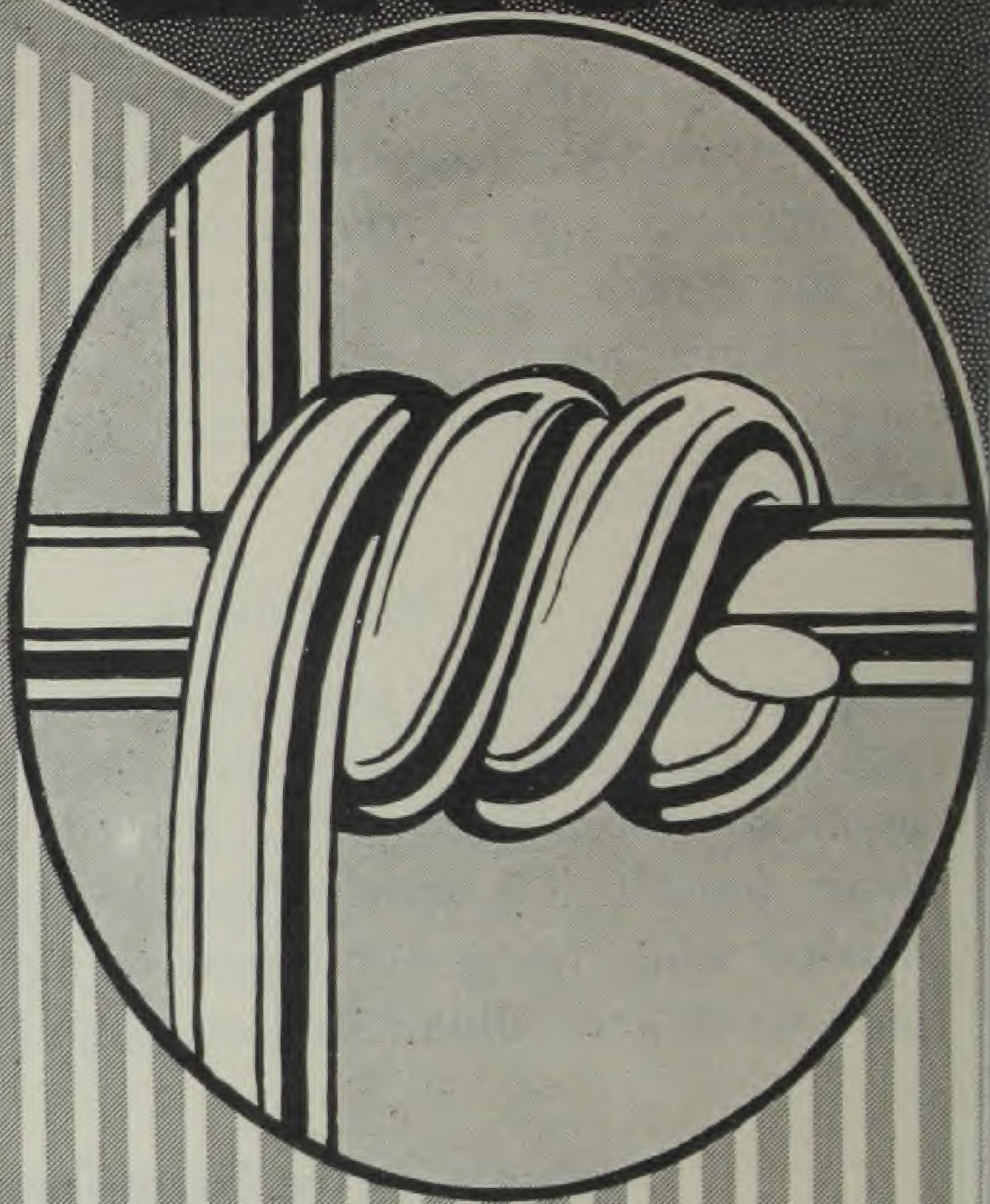
AMERICAN WOVEN WIRE FENCE

GUARANTEED

Zinc Insulated

INSULATED FENCE
AGAINST RUST

Made Only By
AMERICAN STEEL
& WIRE COMPANY



SEE STORY
HOW TO
BUILD A
FENCE
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American Steel & Wire Company

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